Aspire 4253/4253G

SERVICEGUIDE

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Revision History

Refer to the table below for the updates made to the Aspire 4253/4253G service guide.

Date	Chapter	Updates

Service guide files and updates are available on the ACER/CSD Website. For more information, go to http://csd.acer.com.tw.

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Conventions

The following conventions are used in this manual:

⚠ WARNING:
Indicates a potential for personal injury.

⚠ CAUTION:
Indicates a potential loss of data or damage to equipment.

+ IMPORTANT:
Indicates information that is important to know for the proper completion of a procedure, choice of an option, or completing a task.

The following typographical conventions are used in this document:

- Book titles, directory names, file names, path names, and program/process names are shown in *italics*.

  Example:

  the *DRS5 User's Guide*

  /usr/local/bin/fd

  the */TPH15spool_M* program

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- Computer output (text that represents information displayed on a computer screen, such as menus, prompts, responses to input, and error messages) are shown in constant width.

  Example:

  ```
  [01] The server has been stopped
  ```

- User input (text that represents information entered by a computer user, such as command names, option letters, and words) are shown in constant width bold.

  Variables contained within user input are shown in angle brackets (< >).

  Example:

  At the prompt, type run **<file name> -m**

- Keyboard keys are shown in ***bold italics***.

  Example:

  After you enter the data, press ***Enter***.

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General information

This service guide provides all technical information relating to the basic configuration for Acer global product offering. To better fit local market requirements and enhance product competitiveness, your regional office may have decided to extend the functionality of a machine (such as add-on cards, modems, or extra memory capabilities). These localized features are not covered in this generic service guide. In such cases, contact your regional offices or the responsible personnel/channel to provide further technical details.

When ordering FRU parts:

Check the most up-to-date information available on your regional Web or channel. If, for whatever reason, a part number change is made, it may not be noted in this printed service guide.

Acer-authorized Service Providers:

Your Acer office may have a different part number code than those given in the FRU list in this service guide. The list provided by your regional Acer office must be used to order FRU parts for repair and service of customer machines.

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CHAPTER 1
Hardware Specifications

Features 1-5
- Operating System 1-5
- Platform 1-5
- System Memory 1-5
- Display 1-5
- Audio Subsystem 1-5
- Graphics 1-6
- Storage Subsystem 1-6
- Privacy Control 1-6
- Optical Media Drive 1-7
- Communication 1-7
- Dimension and Weight 1-7
- Power Adapter and Battery 1-7
- Special Keys and Controls 1-8
- I/O Ports 1-8
- Optional Items 1-8
- Warranty 1-8
- Environment 1-8
- Software 1-9

Notebook Tour 1-10
- Touchpad Basics 1-17
- Using the Keyboard 1-18
- Windows Keys 1-19
- Hotkeys 1-20

Specification Tables 1-23
- Computer specifications 1-23
- Processor 1-24
- Processor Specifications 1-24
- CPU Fan True Value Table) 1-25
- GPU Fan True Value Table) 1-25
- System Memory 1-25
- Memory Combinations 1-26
- Video Interface 1-26
- BIOS 1-26
- LAN Interface 1-27
- Keyboard 1-27
- Hard Disk Drive (AVL components) 1-28
- Hard Disk Drive (AVL components) (Continued) 1-29
- Hard Disk Drive (AVL components) (Continued) 1-30
- Super-Multi Drive 1-31
- Super-Multi Drive (Continued) 1-32
- Super-Multi Drive (Continued) 1-33

Downloaded from www.Manualslib.com manuals search engine

LED 14.0”. 1-34
LCD Inverter (not available with this model) 1-34
Display Supported Resolution (LCD Supported Resolution) . . 1-35
Display Supported Resolution (GPU Supported Resolution). . 1-35
Mini Card 1-37
3G Card (not available in this model) 1-37
Audio Codec and Amplifier 1-38
Audio Interface. 1-39
Battery 1-39
VRAM 1-39
USB Port 1-40
AC Adapter 1-40
System Power Management 1-41
Card Reader 1-41
System LED Indicator 1-42
System DMA Specification 1-42

CHAPTER 2
System Utilities

BIOS Setup Utility. 2-3
Navigating the BIOS Utility 2-3
BIOS 2-4
Information. 2-4
Main 2-6
Security 2-8
Boot. 2-12
Exit. 2-13
BIOS Flash Utilities 2-14
DOS Flash Utility. 2-15
WinFlash Utility 2-17
Clearing BIOS Passwords 2-18
Removing BIOS Passwords 2-19
Miscellaneous Tools. 2-21
Using DMITools. 2-21
Using the LAN MAC EEPROM Utility. 2-25
Crisis Disk Recovery 2-26

Downloaded from www.Manualslib.com manuals search engine

CHAPTER 3
Machine Maintenance Procedures

Introduction 3-5
General Information 3-5
Recommended Equipment 3-5
Maintenance Flowchart. 3-6
Getting Started 3-7
Battery Pack Removal. 3-8
Battery Pack Installation 3-8
Dummy Card Removal 3-9
Dummy Card Installation 3-9
Keyboard Removal 3-10
Keyboard Installation. 3-11
ODD (Optical Disk Drive) Module Removal 3-12
ODD Module Installation 3-13
Lower Cover Removal 3-14
Lower Cover Installation 3-15
DIMM (Dual In-line Memory Module) Module Removal . . . 3-16
DIMM Module Installation. 3-17
WLAN (Wireless Local Area Network) Module Removal . . . 3-18
WLAN Module Installation 3-19
USB Module Removal. 3-20
USB Module Installation 3-20
RTC Battery Removal 3-21
RTC Battery Installation 3-21
Bluetooth Module Removal. 3-22
Bluetooth Module Installation 3-23
Thermal Module Removal 3-24
Thermal Module Installation 3-25
HDD (Hard Disk Drive) Module Removal 3-27
HDD Module Installation 3-28
Mainboard Removal. 3-29
Mainboard Installation 3-30
LCD (Liquid Crystal Display) Module Removal 3-31
LCD Module Installation 3-32
Speaker Removal 3-33
Speaker Installation 3-34
LCD Bezel Removal. 3-35
LCD Bezel Installation 3-36
Camera Module Removal. 3-37
Camera Module Installation 3-38

Downloaded from www.Manualslib.com manuals search engine

LCD Panel Removal 3-39
LCD Panel Installation 3-40
LCD Bracket Removal 3-41
LCD Bracket Installation 3-41
LVDS Cable Removal 3-42
LVDS Cable Installation 3-43
WLAN Antenna Removal 3-44
WLAN Antenna Installation 3-44

CHAPTER 4
Troubleshooting

Introduction 4-3
General Information 4-3
Power On Issues 4-4
No Display Issues 4-5
LCD Failure 4-7
Keyboard Failure 4-8
Touchpad Failure 4-9
Internal Speaker Failure 4-10
Microphone Failure 4-12
USB Failure 4-13
Other Functions Failure 4-14
Intermittent Problems 4-15
Undetermined Problems 4-15
Post Codes 4-16

CHAPTER 5
Jumper and Connector Locations

Mainboard Jumper and Connector Locations 5-3
Clearing Password Check and BIOS Recovery 5-5
Clearing Password Check 5-5
Clear CMOS Jumper 5-6
BIOS Recovery by Crisis Disk 5-6

Downloaded from www.Manualslib.com manuals search engine

CHAPTER 6
FRU (Field Replaceable Unit) List

Exploded Diagrams 6-4
FRU List 6-7
Screw List 6-20

CHAPTER 7
Model Definition and Configuration

Acer 4255 7-1
Aspire 4253G 7-22

CHAPTER 8
Test Compatible Components

Microsoft® Windows® 7 Environment Test 8-4

CHAPTER 9
Online Support Information

Introduction 9-3

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CHAPTER 1
Hardware Specifications

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Features 1-5
Operating System 1-5
Platform 1-5
System Memory 1-5
Display 1-5
Audio Subsystem 1-5
Graphics 1-6
Storage Subsystem 1-6
Privacy Control 1-6
Optical Media Drive 1-7
Communication 1-7
Dimension and Weight 1-7
Power Adapter and Battery 1-7
Special Keys and Controls 1-8
I/O Ports 1-8
Optional Items 1-8
Warranty 1-8
Environment 1-8
Software 1-9
Notebook Tour 1-10
Touchpad Basics 1-17
Using the Keyboard 1-18
Windows Keys 1-19
Hotkeys 1-20
Specification Tables 1-23
Computer specifications 1-23
Processor 1-24
Processor Specifications 1-24
CPU Fan True Value Table) 1-25
GPU Fan True Value Table) 1-25
System Memory 1-25
Memory Combinations 1-26
Video Interface 1-26
BIOS 1-26
LAN Interface 1-27
Keyboard 1-27
Hard Disk Drive (AVL components) 1-28
Hard Disk Drive (AVL components) (Continued) 1-29
Hard Disk Drive (AVL components) (Continued) 1-30
Super-Multi Drive 1-31
Super-Multi Drive (Continued) 1-32
Super-Multi Drive (Continued) 1-33
LED 14.0” 1-34
LCD Inverter (not available with this model) 1-34
Display Supported Resolution (LCD Supported Resolution) 1-35
Display Supported Resolution (GPU Supported Resolution) 1-35
Mini Card 1-37
3G Card (not available in this model) 1-37
Audio Codec and Amplifier 1-38

Downloaded from www.Manualslib.com manuals search engine

Audio Interface 1-39
Battery 1-39
VRAM 1-39
USB Port 1-40
AC Adapter 1-40
System Power Management 1-41
Card Reader 1-41
System LED Indicator 1-42
System DMA Specification 1-42

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Hardware Specifications and Configurations

Features

Below is a summary of the computer's features:

Operating System

- Genuine Windows® 7 Home Premium 64-bit
- Genuine Windows® 7 Home Basic 64-bit

Platform

- AMD E-Series processor E-240/E-350 (512 KB / 1 MB L2 cache, 1.50/1.60 GHz, DDR3 1066 MHz, 18 W)
- AMD A50M Fusion™ Controller Hub

System Memory

- Single-channel DDR3 SDRAM, supports 2 DIMMS:
  - Up to 4 GB of DDR3 system memory, upgradable to 8 GB using two soDIMM modules

Display

- 14" HD 1366 x 768 pixel resolution, high-brightness (200-nit) Acer CineCrystal™ LED-backlit TFT LCD
- Mercury-free, environment-friendly
- 16:9 aspect ratio

Audio Subsystem

- High-definition audio support
- Built-in mono speaker
- MS-Sound compatible
- Built-in microphone

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Graphics

Aspire 4253

- ATI Radeon™ HD 6310 Graphics with 256 MB of dedicated system memory, supporting Unified Video Decoder 3 (UVD3), OpenCL™ 1.1, OpenGL® 3.1, OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX® 11
- External resolution / refresh rates:
  - VGA port up to 2560 x 1600: 60 Hz
  - HDMI® port up to 1920 x 1080: 60 Hz

Aspire 4253G

- AMD Radeon™ HD 6470M with 512 MB of dedicated DDR3 VRAM, supporting Unified Video Decoder 3 (UVD 3), OpenEXR High Dynamic-Range (HDR) technology, Shader Model 5.0, Microsoft® DirectX®, OpenGL® 3.1, OpenCL™ 1.1
- Microsoft® DirectX® Video Acceleration (DXVA) application interface (API)
- External resolution / refresh rates:
  - VGA port up to 2048 x 1536: 85 Hz
  - HDMI® port up to 1920 x 1080: 60 Hz

Aspire 4253/4253G

- Dual independent display support
- 16.7 million colors
- MPEG-2/DVD decoding
- VC-1 and H.264 (AVC) decoding
- MPEG-4 Part 2 DivX® and Xvid decoding
- HDMI® (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support

Storage Subsystem

Hard disk drive:

- 250/320/500/640/750 GB or larger

2-in-1 card reader:

- Supports Secure Digital™ (SD) Card and MultiMediaCard™ (MMC)

Privacy Control

- BIOS user, supervisor, HDD passwords
- Kensington lock slot

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Optical Media Drive

8X DVD-Super Multi double-layer drive:

- Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 6X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM
- Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM

Communication

Acer Video Conference:

- Acer Crystal Eye webcam, 1280 x 1024 resolution

WLAN:

- Acer InviLink™ Nplify™ 802.11b/g/n Wi-Fi CERTIFIED™
- Acer InviLink™ 802.11b/g Wi-Fi CERTIFIED™
- Supporting Acer SignalUp™ wireless technology

WPAN:

- Bluetooth® 3.0+HS
- Bluetooth® 2.1+EDR

LAN:

- Gigabit Ethernet, Wake-on-LAN ready

Dimension and Weight

Dimensions:

- 342 (W) x 249 (D) x 28.5/33.5 (H) mm (13.68 x 9.96 x 1.14/1.34 inches)

Weight:

- 2.2 kg (4.86 lbs.) with 6-cell battery pack

Power Adapter and Battery

ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes

Power adapter

- 3-pin 65 W AC adapter:
  - 95 (W) x 50 (D) x 25.4 (H) mm (3.74 x 1.96 x 1 inches)
  - 216 g (0.47 lbs.) with 180 cm DC cable

Battery

- 48.8 Wh 4400 mAh 6-cell Li-ion standard battery pack
- Battery life: 4.5 hours
- ENERGY STAR®

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Special Keys and Controls

Keyboard

- 86-/87-/91-key Acer FineTip keyboard with international language support

Touchpad

- Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip

Media keys

- Media control keys (printed on keyboard): play/pause, stop, previous, next, volume up, volume down

I/O Ports

- 2-in-1 card reader (SD™, MMC)
- Three USB 2.0 ports
- HDMI® port with HDCP support
- External display (VGA) port
- Headphone/speaker/line-out jack
- Microphone-in jack
- Ethernet (RJ-45) port
- DC-in jack for AC adapter

Optional Items

- 1/2/4 GB DDR3 soDIMM module
- 6-cell Li-ion battery pack
- 3-pin 65 W AC adapter

Warranty

- One-year International Travelers Warranty (ITW)

Environment

- Temperature:
  - Operating: 41 F to 95 F (5 C to 35 C)
  - Non-operating: -4 F to -149 F (20 C to 65 C)
- Humidity (non-condensing):
  - Operating: 20% to 80%
  - Non-operating: 20% to 80%

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Software

Productivity

- Acer Backup Manager
- Acer ePower Management
- Acer eRecovery Management
- Adobe® Flash® Player 10.1
- Adobe® Reader® 9.1
- Barnes & Noble Desktop Reader (US only)
- Bing™ Bar
- eSobi™
- Microsoft® Office 2010 preloaded (purchase a product key to activate)
- Microsoft® Office Starter 2010
- New York Times Reader (US only)
- Norton™ Online Backup

Security

- McAfee® Internet Security Suite Trial
- MyWinLocker® (except China, Hong Kong)
- Multimedia
- Cyberlink® PowerDVD™
- NTI Media Maker™

Gaming

- Oberon GameZone (except US, Canada, Hong Kong, Korea)
- WildTangent® (US, Canada only)
- Communication and ISP
- Acer Crystal Eye
- Microsoft® Silverlight™
- Skype™
- Windows Live™ Essentials

Web links and utilities

- Acer Accessory Store (Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, UK only)
- Acer Identity Card
- Acer Registration
- Acer Updater
- eBay® shortcut 2009 (Canada, France, Germany, Italy, Mexico, Spain, UK, US only)
- Netflix shortcut (US only)

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Notebook Tour

Figure 1-1. Top View

Table 1-1. Top View

#	Icon	Item	Description
1		Acer Crystal Eye webcam	Web camera for video communication. (only for certain models)
2		Display screen	Also called Liquid-Crystal Display (LCD), displays computer output (configuration may vary by model).
3	⏻	Power button	Turns the computer on and off.
4		Keyboard	For entering data into your computer
5		Touchpad	Touch-sensitive pointing device which functions like a computer mouse.

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Table 1-1. Top View

#	Icon	Item	Description
6		Click buttons (left, and right)	The left and right buttons function like the left and right mouse buttons.
7		Microphone	Internal microphone for sound recording.
8		Power indicator	Indicates the computer's power status.
		Battery indicator	Indicates the computer's battery status. 1. Charging: The light shows amber when the battery is charging. 2. Fully charged: The light shows blue when in AC mode.
		HDD indicator	Indicates when the hard disk drive is active.
		Communication indicator	Indicates the computer’s wireless connectivity device status.
9		Palmrest	Comfortable support area for your hands when you use the computer.
10		Speaker	Delivers audio output.

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Figure 1-2. Closed Front View

Table 1-2. Closed Front View

#	Icon	Item	Description
1		Microphone jack	Accepts inputs from external microphones.
		Headphone/speaker/line-out jack	Connects to audio line-out devices (e.g., speakers, headphones).

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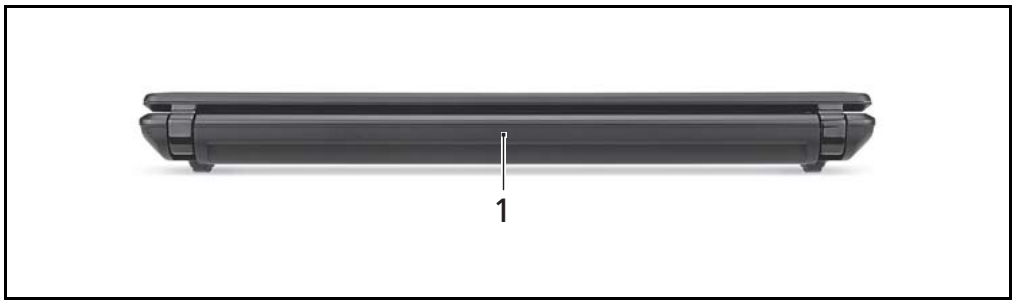

Figure 1-3. Rear View

Table 1-3. Rear View

#	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.

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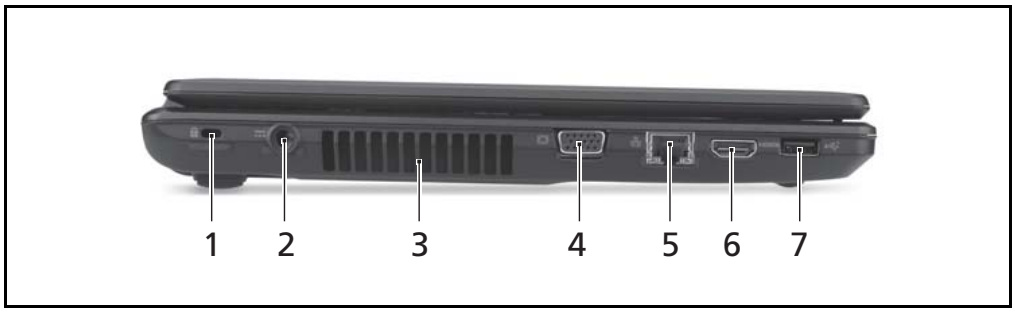


Figure 1-4. Left View

Table 1-4. Left View

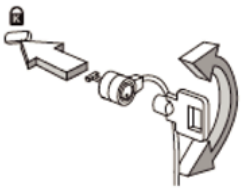
#	Icon	Item	Description
1		Kensington lock slot 	Connects to a Kensington-compatible computer security lock. Note: Wrap the computer security lock cable around an immovable object such as a table or handle of a locked drawer. Insert the lock into the notch and turn the key to secure the lock. Some keyless models are also available.
2		DC-in jack	Connects to an AC adapter.
3		Ventilation slots	Enable the computer to stay cool, even after prolonged use.
4		External display (VGA) port	Connects to a display device (e.g., external monitor, LCD projector).
5		Ethernet (RJ-45) port	Connects to an Ethernet 10/100/1000-based network.
6	HDMI	HDMI port	Supports high-definition digital video connections.
7		USB 2.0 port	Connects to USB 2.0 devices (e.g., USB mouse, USB camera).

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Figure 1-5. Right View

Table 1-5. Right View

#	Icon	Item	Description
1		USB 2.0 ports	Connect to USB 2.0 devices (e.g., USB mouse, USB camera).
2		Optical drive	Internal optical drive; accepts CDs or DVDs.
3		Optical disk access indicator	Lights up when the optical drive is active.
4		Optical drive eject button	Ejects the optical disk from the drive.

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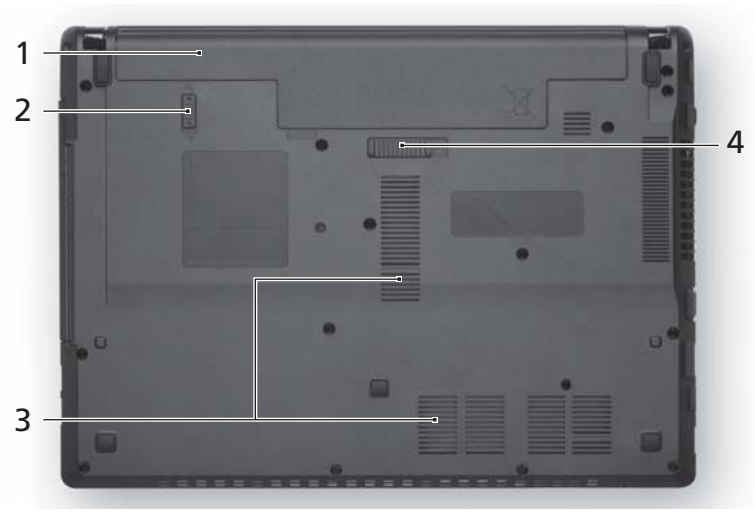

Figure 1-6. Base View

Table 1-6. Base View

#	Icon	Item	Description
1		Battery bay	Houses the computer's battery pack.
2		Battery lock	Locks the battery in position.
3		Ventilation slots	Enable the computer to stay cool, even after prolonged use.
4		Battery release latch	Releases the battery for removal.

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Touchpad Basics

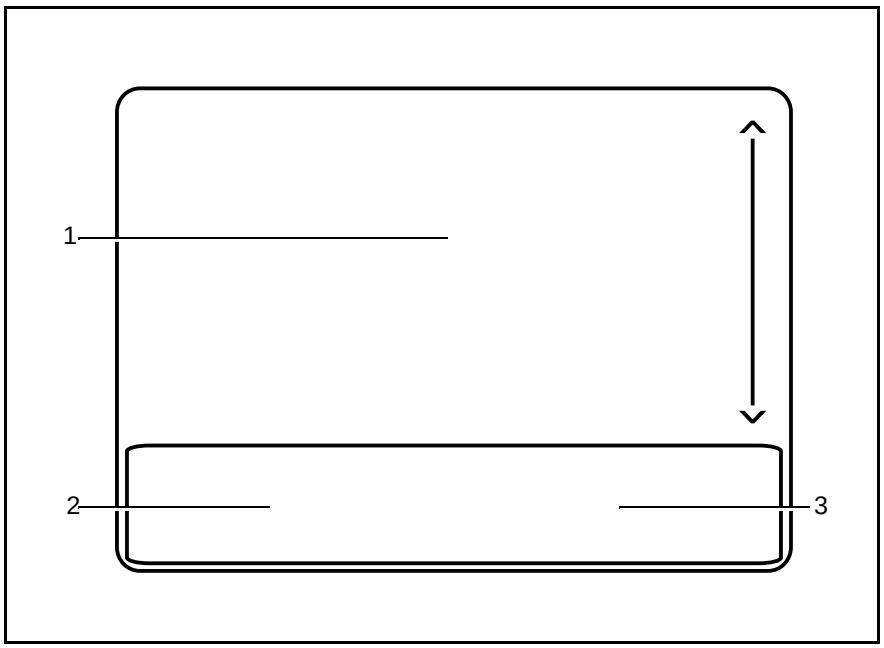

Figure 1-7. Touchpad

- Move your finger across the Touchpad (1) to move the cursor.
- Press the left (2) and right (3) buttons located beneath the Touchpad to perform selection and execution functions. These two buttons are the equivalent of the left and right buttons on a mouse. Tapping on the Touchpad is the same as clicking the left button.

Function	Main Touchpad (1)	Left Button (2)	Right Button (3)
Execute	Tap twice (at the same speed as double-clicking a mouse button).	Quickly click twice.	
Select	Tap once.	Click once.	
Drag	Tap twice (at the same speed as double-clicking a mouse button); rest your finger on the Touchpad on the second tap and drag the cursor.	Click and hold, then use finger on the Touchpad to drag the cursor.	
Access context menu			Click once.

NOTE:
When using the Touchpad, keep it - and fingers - dry and clean. The Touchpad is sensitive to finger movement; hence, the lighter the touch, the better the response. Tapping too hard will not increase the Touchpad's responsiveness.

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Using the Keyboard

The computer has a close-to-full-sized keyboard and an embedded numeric keypad, separate cursor, lock, function and special keys.

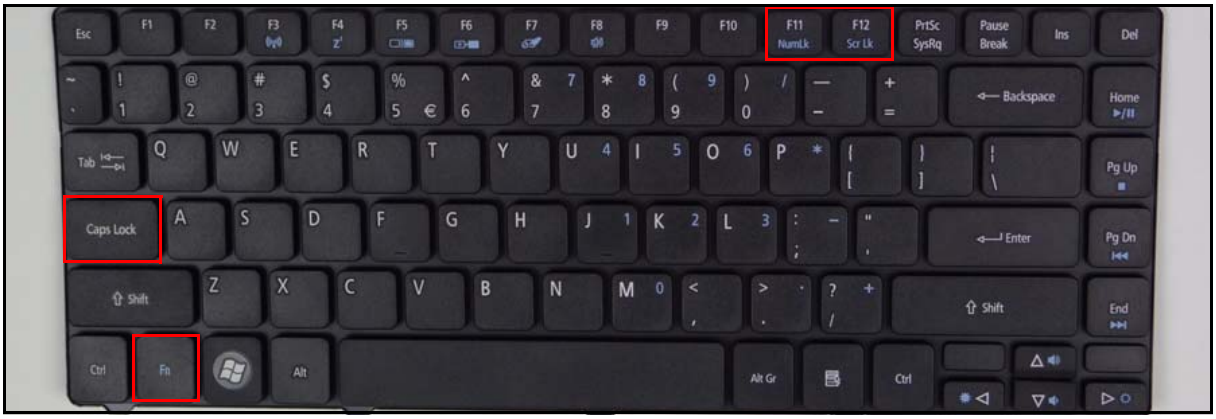

Figure 1-8. Keyboard Lock Keys

Lock Keys

The keyboard has three lock keys which can be toggled on and off.

Lock key	Description
Caps Lock	When Caps Lock is on, all alphabetic characters typed are in uppercase.
Num Lock <Fn> + <F11>	When Num Lock is on, the embedded keypad is in numeric mode. The keys function as a calculator (complete with the arithmetic operators +, -, *, and /). Use this mode when doing a lot of numeric data entry. A better solution would be to connect an external keypad.
Scroll Lock <Fn> + <F12>	When Scroll Lock is on, the screen moves one line up or down when the up or down arrow keys are pressed respectively. Scroll Lock does not work with some applications.

Embedded Numeric Keypad

The embedded numeric keypad functions like a desktop numeric keypad. It is indicated by small characters located on the upper right corner of the key caps. To simplify the keyboard legend, cursor-control key symbols are not printed on the keys.

Table 1-7. Embedded Numeric Keypad

Desired access	Num Lock on	Num Lock off
Number keys on embedded keypad	Type numbers in a normal manner.	
Cursor-control keys on embedded keypad	Hold <Shift> while using cursor-control keys.	Hold <Fn> while using cursor-control keys.
Main keyboard keys	Hold <Fn> while typing letters on embedded keypad.	Type the letters in a normal manner.

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Windows Keys

The keyboard has two keys that perform Windows-specific functions.

- Windows Logo key
- Application key

Key	Description
Windows Logo key	Pressed alone, this key has the same effect as clicking on the Windows Start button; it launches the Start menu. It can also be used with other keys to provide a variety of functions. **Functions supported by Windows XP, Windows Vista, and Windows 7:** <⊞>: Open or close the Start menu <⊞> + <R>: Open the Run dialog box <⊞> + <M>: Minimizes all windows <SHIFT> + <⊞> + M: Undo minimize all windows <⊞> + <F1>: Show the help window <⊞> + <E>: Open Windows Explorer <⊞> + <F>: Search for a file or folder <⊞> + <D>: Show the desktop <CTRL> + <⊞> + <F>: Search for computers (if you are on a network) <⊞> + <L>: Lock your computer (if you are connected to a network domain), or switch users (if you're not connected to a network domain) <CTRL> + <⊞> + <TAB>: Moves focus from Start menu, to the Quick Launch toolbar, to the system tray (use RIGHT ARROW or LEFT ARROW to move focus to items on the Quick Launch toolbar and the system tray) <⊞> + <TAB>: Cycle through programs on the taskbar <⊞> + <BREAK>: Display the System Properties dialog box **Functions supported by Windows XP:** <⊞> + <BREAK>: Show the System Properties dialog box <⊞> + <U>: Open Ease of Access Center
Application key	This key has the same effect as clicking the right mouse button; it opens the application's context menu.

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Hotkeys

The computer employs hotkeys or key combinations to access most of the computer's controls like screen brightness and volume output.

Figure 1-9. Keyboard Hotkeys

To activate hotkeys, press and hold the <Fn> key before pressing the other key in the hockey combination.

Hot key	Icon	Function	Description
<Fn> + <F3>		Communication	Enables/disables the computer's communication devices. (Communication devices may vary by configuration.)
<Fn> + <F4>		Sleep	Puts the computer in Sleep mode.
<Fn> + <F5>		Display toggle	Switches display output between the display screen, external monitor (if connected) and both.
<Fn> + <F6>		Display off	Turns the display screen backlight off to save power. Press any key to return.
<Fn> + <F7>		Touchpad toggle	Turns the touchpad on and off.
<Fn> + <F8>		Speaker toggle	Turns the speakers on and off.
<Fn> + <▷>		Brightness up	Increases the screen brightness.
<Fn> + <◁ >		Brightness down	Decreases the screen brightness.

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Hot key	Icon	Function	Description
<Fn> + <△ >		Volume up	Increases the sound volume.
<Fn> + <▽ >		Volume down	Decreases the sound volume.
<Fn> + <Home>		Play/Pause	Plays or pauses media files
<Fn> + <Pg Up>		Stop	Stops media file
<Fn> + <Pg Dn>		Previous	Plays the previous media file
<Fn> + <End>		Next	Plays the next media file

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System Block Diagram

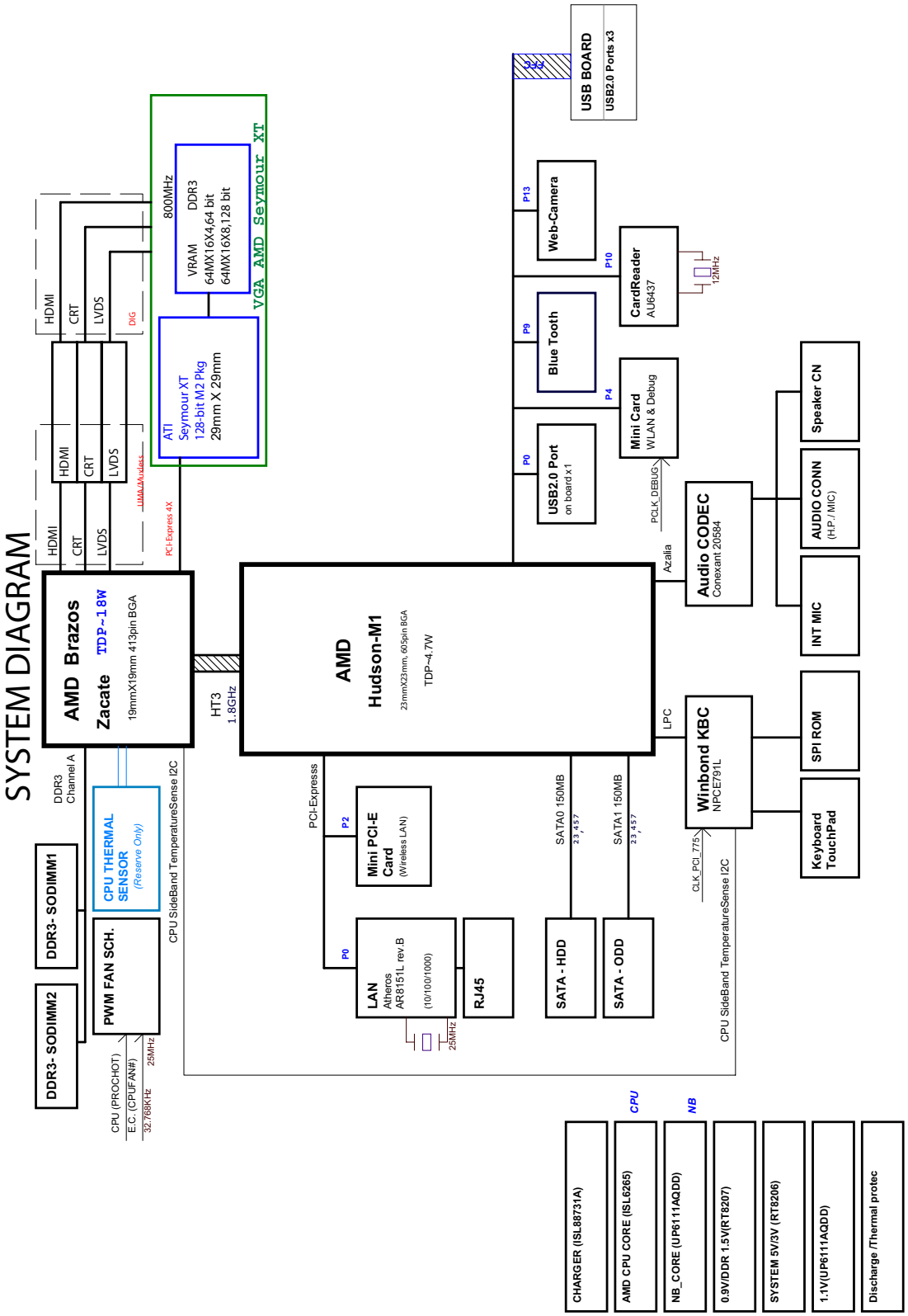

Figure 1-10. System Block Diagram

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Specification Tables

Computer specifications

Item	Metric	Imperial
Dimensions		
Length	245 mm	9.64 in
Width	342 mm	13.46 in
Height (front to rear)	19.4/25.4 mm	0.76/0.99 in
Weight (equipped with optical drive, flash drive, and battery)	2.15 kg with 6-cell battery	4.73 lbs with 6-cell battery
Input power		
Operating voltage	19V	
Operating current	3.42A	
Temperature		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	0°C to 40°C	32°F to 104°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
Relative humidity		
Operating	20% to 80%	
Nonoperating	20%to 80%	
Maximum altitude (unpressurized)		
Operating	-15 to 3,048m	-50 to 10,000ft
Nonoperating	-15 to 12,192m	-50 to 40,000ft
Shock		
Operating	105G, 2 ms, half-sine	
Nonoperating	220 G, 2 ms, half-sine	
Random vibration		
Operating	0.6G/5~500HZ/30min per axis	
Nonoperating	1.5G/5~500HZ/30 min per axis	

NOTE:
Applicable product safety standards specify thermal limits for plastic surfaces. The computer operates well within this range of temperatures.

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System Board Major Chips

Item	Specification
Core logic	AMD Brazos platform Hudson-M1
VGA	ATI Seymour XT
LAN	Atheros 8151
USB 2.0	Hudson-M1
Super I/O controller	Hudson-M1
Bluetooth	Atheros AR3011/ Broadcom BCM2070/ Broadcom BCM2046
Wireless	Atheros HB93/HB95/ HB97, Broadcom 943225/43225/ 4313/ 4312, RTL8192
PCMCIA	N/A
Audio codec	Conexant 20584
Card reader	AU6437-GBL
eSata	N/A

Processor

Item	Specification
CPU type	Zacate TDP-18W
CPU package	413pin BGA
Core Logic	Two execution cores ● A 32-KB instruction and 32-KB data first cache (L1) for each core ● A 256-KB shared instruction/data second-level cache (L2) for each core ● Up to 4-MB shared instruction/data third-level cache (L3), shared among all cores
Chipset	Hudson-M1

Processor Specifications

Item	CPU Speed (GHz)	Cores/ Threads	Bus Speed (FSB/ DMI/QBI)	Mfg Tech (nm)	Cache Size	Package	Voltage
E-350	1.6	2	500 MHz	40	1MB L2	FT1 BGA	0.875V~ .11V
C-50	1.0	2	280 MHz	40	1MB L2	FT1 BGA	0.875V~ .11V

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CPU Fan True Value Table)

Temperature (°C)	Fan Speed (RPM)	SPL Spec (dBA)
Fan on = 45C; Fan Off = 42C	2350	28
Fan on = 50C; Fan Off = 48C	2800	31
Fan on = 58C; Fan Off = 56C	3100	34
Fan on = 63C; Fan Off = 61C	3500	37
Fan on = 82C; Fan Off = 80C	3850	40
Fan on = 92C; Fan Off = 85C	5V	N/A
• Throttling 50%: On =95C; Off=90C • OS Shut down: 100C • H/W Shut down: 105C		

GPU Fan True Value Table)

Temperature (°C)	Fan Speed (RPM)	SPL Spec (dBA)
Fan on = 45C; Fan Off = 42C	2350	28
Fan on = 50C; Fan Off = 48C	2800	31
Fan on = 58C; Fan Off = 56C	3100	34
Fan on = 63C; Fan Off = 61C	3500	37
Fan on = 82C; Fan Off = 80C	3850	40
Fan on = 92C; Fan Off = 85C	5V	N/A
• Throttling 50%: On =95C; Off=90C • OS Shut down: 100C • H/W Shut down: 105C		

System Memory

Item	Specification
Memory controller	Built in at CPU
Memory size	DDRIII 1333 512 MB, 1 GB, 2 GB, 4 GB
DIMM socket number	2 sockets
Supports memory size per socket	4 GB
Supports maximum memory size	8 GB
Supports DIMM type	• SDRAM memory interface design **Note:** Processor supports up to 1066 Mhz only
Supports DIMM Speed	800/1066 SDRAM
Support DIMM voltage	1.5V
Supports DIMM package	Standard 204P

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Memory Combinations

Slot 1 (MB)	Slot 2 (MB)	Total Memory (MB)
0	1024	1024
1024	0	1024
1024	1024	2048
0	2048	2048
2048	0	2048
2048	2048	4096
4096	0	4096
0	4096	4096
4096	4096	8192

Video Interface

Item	Specification
Chipset	ATI Seymour XT 64-bit
Package	M2 Pkg
Interface	PCIE X4
Compatibility	Fully compliant with the electrical specifications of ANSI/TIA/EIA-644
Sampling rate	115MHz

BIOS

Item	Specification
BIOS vendor	Insyde
BIOS Version	0.07
BIOS ROM type	MX25L3205A, MX25L3206A, W25X32A, W25Q32BV, EN25F32, Atmel26DF321
BIOS ROM size	4MB
Features	• Insyde code base • Flash ROM 4 MB • Support ISIPP

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LAN Interface

Item	Specification
LAN Chipset	Atheros 8151
LAN connector type	RJ45
LAN connector location	JRJ45 at the left side
Features	Supports 10/100/1000

Keyboard

Item	Specification
Type	New Acer TM7T flat keyboard
Total number of keypads	105-US/106-UK key
Windows logo key	Yes
Internal & external keyboard work simultaneously	Plug USB keyboard to the USB port directly: Yes
Features	• Phantom key auto detect • Overlay numeric keypad • Support independent pgdn/pgup/pgup/home/end keys • Support reverse T cursor keys • Factory configurable different languages by OEM customer

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Hard Disk Drive (AVL components)

Item	Specification		
Vendor & Model Name	Hitachi HTS545016B9A300, HTS545016B9SA00, Seagate ST9160314AS, ST9160314ASG, ST9160301AS	Hitachi HTS545025B9A300, HTS545025B9SA00, Seagate ST9250315AS, ST9250315ASG	Hitachi HTS545032B9A300, HTS545032B9SA00, Seagate ST9320325AS, ST9320325ASG
Capacity (GB)	160	250	320
Bytes per sector	512		
Data heads	2	2	3
Drive Format			
Disks	1	1	2
Spindle speed (RPM)	5400		
Performance Specifications			
Buffer size	8MB		
Interface	SATA		
Fast data transfer rate (Gbits / sec, max)	3.0, 3.0, 1.175, 1.175, 1.175,	3.0, 3.0, 1.175, 1.175	3.0, 3.0, 1.175, 1.175
Media data transfer rate (Mbytes/sec max)	845, 300, 300, 300	875, 875, 300, 300	875, 875, 300, 300
DC Power Requirements			
Voltage tolerance	5V ±5%		

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Hard Disk Drive (AVL components) (Continued)

Item	Specification		
Vendor & Model Name	Hitachi HTS545040B9A300/HTS545040B9SA00, Seagate ST9400326AS	Hitachi HTS545050B9A300, HTS545050B9SA00 Seagate ST9500325AS, ST9500325ASG WD WD5000BPVT	WD WD6400BPVT
Capacity (GB)	400	500	640
Bytes per sector	512		
Data heads	4	4, 4, 4, 4, 3	4
Drive Format			
Disks	2		
Spindle speed (RPM)	5400		
Performance Specifications			
Buffer size	8MB		
Interface	SATA		
Fast data transfer rate (Gbits / sec, max)	3.0, 3.0, 1.175, 1.175	3.0, 3.0, 1.175, 1.175, 3.0	3.0
Media data transfer rate (Mbytes/sec max)	875, 875, 300, 300	875, 875, 300, 300, 97	97
DC Power Requirements			
Voltage tolerance	5V ±5%		

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Hard Disk Drive (AVL components) (Continued)

Item	Specification
Vendor & Model Name	Toshiba MK7559GSXP WD WD7500BPVT
Capacity (GB)	750
Bytes per sector	512
Data heads	4
Drive Format	
Disks	2
Spindle speed (RPM)	5400
Performance Specifications	
Buffer size	8MB
Interface	SATA
Fast data transfer rate (Gbits / sec, max)	3.0
Media data transfer rate (Mbytes/sec max)	584.3-1195.5, 97
DC Power Requirements	
Voltage tolerance	5V ±5%

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Super-Multi Drive

Item	Specification			
Vendor & Model name	HLDS GT32N		Panasonic UJ890	
Performance Specification	With CD Diskette	With DVD Diskette	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: Max 3.6 (24x)	Sustained: Max 11.08 (8x)	Sustained: Max 3.6 (24x)	Sustained: Max 10.8 (8x)
Buffer Memory	1 MB			
Interface	SATA			
Applicable disc format	DVD: DVD-ROM: 4.7GB (Single Layer) 8.5GB (Dual Layer) DVD-R: 3.95GB (Ver. 1.0: read only) 4.7GB (Ver. 2.0 for Authoring: read only) 4.7GB (Ver. 2.1 for General: read & write) (DL) 8.5GB (Ver. 3.0) DVD-RW: 4.7GB (Ver. 1.2/ Rev 1.0, 2.0, 3.0), DVD-RAM: 4.7GB/side (Ver. 2.2), DVD+R: 4.7GB (Ver. 1.3) (DL) 8.5GB (Ver. 1.1), DVD+RW: 4.7GB (Vol.1 Ver.1.3) CD: CD-ROM Mode-1 data disc, CD-ROM Mode-2 data disc, CD-ROM XA, CD-I, Photo-CD Multi- Session, Video CD, CD-Audio Disc Mixed mode, CD-ROM disc (data and audio), CD-Extra, CD-Text, CD-R (Conforming to “Orange Book Part 2”: read & write), CD-RW (Conforming to “Orange Book Part 3”: read & write)		DVD: DVD-VIDEO, DVD-ROM, DVD-R(4.7GB), DVD-R DL, DVD-RW(Ver.1.1/1.2), DVD+R, DVD+R DL, DVD+RW, DVD-RAM(4.7GB) CD: CD-DA, CD-ROM, CD-ROM XA, PhotoCD (multisession), Video CD, Cd-Extract (CD+), CD-text	
Loading mechanism	Electrical Release (Release Button) Release by ATAPI command Emergency Release			
Power Requirements				
Input Voltage	5 V +/- 5% (Operating)		DC 5V +/- 0.25V	

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Super-Multi Drive (Continued)

Item	Specification			
Vendor & Model name	Pioneer DVR-TD10RS		PLDS DS-8A5SH	
Performance Specification	With CD Diskette	With DVD Diskette	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: - CD-ROM inside 1.5 - CD-ROM outside 3.6	Sustained: - DVD-R inside 2.7 - DVD-R outside 10.8 - DVD+R inside 3.24 - DVD+R outside 10.8	Sustained: - CD-ROM inside 1.45 - CD-ROM outside 3.5	Sustained: - DVD-ROM inside 3.7 - DVD-ROM outside 10
Buffer Memory	1.5 MB			
Interface	SATA			
Applicable disc format	KODAK PhotoCD Single and Multi-session CD Extra (CDPLUS) Video CD CD text data (Read/Write) CD-R discs (Read/Write) CD-RW discs (Read/Write) DVD-ROM DVD-R Ver.2.0 &2.1 for General (Read/Write) DVD-R DL Ver.3.0 (Read/Write) DVD-RW Ver.1.0&1.1&1.2 (Read/Write) DVD+R Ver.1.3 (Read/Write) DVD+R DL Ver1.0&1.1 (Read/Write) DVD+RW Ver.1.3 (Read/Write) DVD+RW high speed Ver.1.0 (Read/Write) DVD-RAM Ver.2.0&2.1&2.2 (*1)		DVD: DVD-ROM (4.7G/8.54G) single layer on single/double side (Read Only), DVD-ROM dual layer (PTP/OTP) on single/double side (Read Only), DVD-RW, DVD+RW, DVD-R (4.7G for General), DVD+R, DVD+R9, DVD-R9, DVD-RAM(4.7G) CD: CD-ROM, CD-R and CD-RW	
Loading mechanism	Electrical Release (Release Button) Release by ATAPI command Emergency Release		Manual load Plunger system	
Power Requirements				
Input Voltage	5V +/- 5% (Operating)			

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Super-Multi Drive (Continued)

Item	Specification			
Vendor & Model name	Sony AD-7585H		TSST TS-L633F	
Performance Specification	With CD Diskette	With DVD Diskette	With CD Diskette	With DVD Diskette
Transfer rate (KB/sec)	Sustained: - CD-ROM inside 1,571 - CD-ROM outside 3,650	Sustained: - DVD-ROM inside 4,574 - DVD-ROM outside 10,993	Sustained: Max 3.6 (24x)	Sustained: Max 10.08Mbytes/sec
Buffer Memory	2 MB		1.5 MB	
Interface	SATA			
Applicable disc format	DVD: DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-Video, DVD-Audio, SACD (Hybrid), UDF DVD, DVD-R, DVD-R DL, DVD-R 3.95 GB, DVD-R Authoring, DVD-R Multi-Border, DVD-R Download (DVD-R CSS, Qflix), DVD-RW, DVD-RW DL, DVD+R, DVD+R DL, DVD+R Multi-Session, DVD+RW, DVD-RAM V1.0, DVD-RAM V2.0 & 2.1 &2.2 CD: CD-DA, CD-ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Mode-2 Form-2, CD-i, CD-i Bridge, Video-CD (MPEG-1), Karaoke CD, Photo-CD, Enhanced CD, CD Plus, CD Extra, itrax CD, CD-Text, UDF CD, CD-R, and CD-RW		DVD: DVD-ROM (Book 1.02), DVD-Dual DVD-Video (Book 1.1) DVD-R (Book 1.0, 3.9G) DVD-R (Book 2.0, 4.7G) - General & Authoring DVD+R (Version 1.0) DVD+RW DVD-RW (Non CPRM & CPRM) DVD±R Dual DVD-RAM CD: CD-DA (Red Book) - Standard Audio CD & CD-TEXT CD-ROM (Yellow Book Mode1 & 2) - Standard Data CD-ROM XA (Mode2 Form1 & 2) - Photo CD, Multi-Session CD-I (Green Book, Mode2 Form1 & 2, Ready, Bridge) CD-Extra/ CD-Plus (Blue Book) - Audio & Text/Video Video-CD (White Book) - MPEG1 CD-R (Orange Book Part ‡U) CD-RW & HSRW (Orange Book Part‡V Volume1 & Volume2) Super Audio CD (SACD) Hybrid type US & US+ RW (US 32X CD-RW Disc recording disable)	
Loading mechanism	Horizontal & Vertical, Motorized Tray-type loading		Drawer (Solenoid Open)	
Power Requirements				
Input Voltage	DC +5V ± 5%		DC +5V ± 5%	

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LED 14.0”

Item	Specification
Vendor & Model name	AUO B140XW01 LG LP140WH1 LG LP140WH4 Samsung LTN140AT01-G03 Chimei BT140GW01
Screen Diagonal (mm)	354.95
Active Area (mm)	309.4 X173.95
Display resolution (pixels)	1366 x 768
Pixel Pitch (mm)	0.2265X0.2265
Typical White Luminance (cd/m^2) also called Brightness	200 typ. (5 points average) 170 min. (5 points average)
Contrast Ratio	500 typ
Response Time (Optical Rise Time/Fall Time) msec	8 typ / 16 Max
Typical Power Consumption (watt)	3.8 max. (Include Logic and Blu power)
Weight (without inverter)	350 max.
Physical Size (mm)	324 (L) x 192.5 (W) x 5.2 (D)
Electrical Interface	1 channel LVDS
Viewing Angle (degree) Horizontal (Right) CR = 10 (Left) Vertical (Upper) CR = 10 (Lower)	 40 min / 45 typ 40 min / 45 typ 10 min / 15 typ 30 min / 35 typ

LCD Inverter (not available with this model)

Item	Specification
Vendor & Model name	
Brightness conditions	
Input voltage (v)	
Input current (mA)	
Output voltage (V, RMS)	
Output current (mA, RMS)	
Output voltage frequency (KHz)	

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Display Supported Resolution (LCD Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA	ATI
800x600p/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1024x768p/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1280x600/60Hz 16:9	Yes	Yes	Yes	N/A	N/A
1280x720/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1280x768/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1360x768/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1366x768/60Hz 16:9	Yes	Yes	Yes	Yes	Yes

Graphics Controller

Item	Specification
VGA Chip	• ATI • Seymour XT
Supports	No

Display Supported Resolution (GPU Supported Resolution)

Resolution	16 bits	32 bits	Intel	NVIDIA	ATI
800x600p/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1024x768p/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1280x600/60Hz 16:9	Yes	Yes	Yes	N/A	N/A
1280x720/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1280x768/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1360x768/60Hz 16:9	Yes	Yes	Yes	Yes	Yes
1366x768/60Hz 16:9	Yes	Yes	Yes	Yes	Yes

Bluetooth Interface

Item	Specifications			
Chipset	Atheros AR3011	Broadcom BCM2070	Broadcom BCM2046	Broadcom BU12 BT2.1/
Data throughput	TX 1.2Mbits/sec, RX 1.2Mbits/sec			
Protocol	2.1+EDR	2.1 + EDR	2.1+EDR	2.1/3.0+EDR
Interface	USB 2.0			
Connector type	8 pin narrow pitch connector	JST SM06B-XSRK-ETB	JST SM08B SURS - TF	6 pin narrow pitch connector
Supported protocol	2.1	2.1	2.1	2.1, 3.0

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Bluetooth Module

Item	Specifications
Controller	AR3011
Feature	• Single-chip Bluetooth v2.1/3.0 + EDR integrated solution • USB 2.0 full-speed device interface with support for Device Firmware Upgrade (DFU) • SPI interface supports external serial flash devices • Two on-chip 1.2V linear voltage regulators • Integrated 32-bit CPU with 32KB data RAM and 256KB program RAM • On-board PLL • On-chip low power oscillator (LPO) • WLAN coexistence interface • Standard USB HCI interface
Controller	BCM2070
Features	• Bluetooth 2.1 compliant • Point-to-multipoint operation • External USB interface for data • Onboard antenna and SMA RF connector • Coexistence support
Controller	BCM2046
Features	• Fully Qualified Bluetooth v2.1 with Class 2 specification RF output power • Enhanced Data Rate (EDR) compliant • Full Piconet and Scatternet operation • Integrated PIFA Antenna with better RF performance • USB 2.0 compliant interface • F/W upgradable via Flash downloads • Very low power consumption • Support Coexistence with Intel WCS (Wireless Coexistence System) & AFH (Adaptive Frequency Hopping)
Controller	BU12
Features	• Single-chip Bluetooth v2.1/3.0+EDR integrated solution • USB 2.0 full-speed device interface with support for Device Firmware Upgrade (DFU) • SPI interface supports external serial flash devices • Two on-chip 1.2V linear voltage regulators • Integrated 32-bit CPU with 32KB data RAM and 256KB program RAM • On-board PLL • On-chip low power oscillator (LPO) • Standard USB HCI interface

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Camera

Item	Specification		
Vendor & Model	Chicony 1.3 MB CNFA130, CNF9157	Suyin 1.3MB HF1316, HF1315	Liteon 1.3MB 09P2SF119, 10P2TF103
Type	CMOS image sensor with SXGA	CMOS image sensor S5K6A1GX03	CMOS image sensor with SXGA

Mini Card

Item	Specification
Number supported	1
Features	1 mini card slot (for WLAN or WLAN/WiMax)

3G Card (not available in this model)

Item	Specification
Features	

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Audio Codec and Amplifier

Item	Specification
Audio Controller	Conexant 20584
Features	• 24-bit, 2 pairs of independent DACs and 3 pairs of independent ADCs • ProCoustic headphone driver delivers 50 mW into 32 ohm load with no pop, eliminating the need for an external amplifier and DC-blocking capacitors • Integrated 5 V to 3.3 V low-dropout voltage regulator for improved audio performance, eliminating need for external regulator or power transistor. • Integrated 3.3 V to 1.8 V low-dropout voltage regulator, used to power digital blocks • Integrated 2 WRMS (per channel) class-D stereo speaker amplifier with Spread Spectrum and 10-kV ESD withstand capability • Digital Microphone interface with internal MIC boost supporting 2 digital microphone elements ▪ Works with all digital microphones. • Internal microphone boost ▪ Digital: 0, 12, 24, 36, 48 dB ▪ Analog: 0, 10, 20, 30, 40 dB • Microphone Security Control ▪ Please contact Conexant Sales/FAE for additional confidential document to disable the bit in microphone from the BIOS. • Exceeds Windows Vista and Windows 7 Desktop and Notebook Premium Logo • Requirements, WLP4.0 • D-Flex power management exceeds Intel ECR 15B requirements, and features Wake-On-PCBeep functionality • Hardware Headphone limiter bit (supports GS Mark EN50332-2) • Compliant with Intel High Definition Audio Specification Rev. 1.0 ▪ Supports both 1.5 V and 3.3 V signaling with the core logic chipset • Retaskable ports ▪ Configure between Headphone and Line-out or between Mic and Line-in • Independent sampling rate for DAC and ADC; supports audio formats ranging from 16-bit, 44.1 kHz to 24-bit, 192 kHz for DACs, and from 16-bit, 44.1 kHz to 24-bit, 96 kHz for ADCs. • Pop Shield: pops and clicks reduction circuitry, including class-D speaker outputs • Jack sense detects up to 8 jacks using only two sense pins • Dual Sony Philips Digital Interface (S/PDIF) outputs • Digital Mixer • Simultaneous DAC and SPDIF engines ▪ +3.3 V analog and I/O operation; uses Vaux for power management modes
Amplifier	CX20584 embedded amplifier

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Audio Interface

Item	Specification
Audio Controller	Conexant 20584
Audio onboard or optional	On board
Mono or Stereo	Mono
Resolution	Support 16/24bit PCM
Compatibility	HD audio Interface
Sampling rate	Sample rate up to 192Khz resolution VSR (Variable Sampling Rate)
Internal microphone	Yes
Internal speaker/quantity	Yes/(1W speakers x1)

Wireless Module 802.11b/g/n

Item	Specification	
Chipset	Atheros HB97	BCM943225HM
Data throughput	11-54 Mbps, up to 300 Mbps for Draft-N	11-54 Mbps, up to 300 Mbps for Draft-N
Protocol	b, g, n	b, g, n
Interface	PCI-E	PCI-E

Battery

Item	Specification
Vendor & Model name	Panasonic AS10D51, Samsung AS2010D, Sanyo 3UR18650, Simplo AS2010D, Sony AS10D41
Battery Type	Lithium-Ion
Pack capacity	4400mAh
Number of battery cell	6
Package configuration	2P3S

VRAM

Item	Specification
Chipset	Hynix / Samsung
Memory size	1G to 2G
Interface	Standard define

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USB Port

Item	Specification
USB compliance level	Universal Serial Bus 2.0
EHCI	2
Number of USB port(s)	3
Location	1 left side, 2 right side
Output Current	1.05V

HDMI Port

Item	Specification
Compliance level	HDMI1.3a
Data throughput	Up to 16.7 million colors
Number of HDMI port(s)	1
Location	1 left side

AC Adapter

Item	Specification
Input rating	100-240V~1.7A(1,7A) 50-60Hz
Maximum input AC current	264 Vrms
Inrush current	264 Vac (Cold/Hot start) No damage; meet fuse and bridge diode I^2t de-rating.
Efficiency	Meets EPA 2.0 level V requirement. The adapter efficiency shall be more than 87%, that is the average value of 25%, 50%, 75% and 100% load with both 115Vac/60Hz and 230Vac/50Hz input voltage condition.

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System Power Management

Item	Specification
Mech. Off (G3)	Al devices in the system are turned off completely.
Soft Off (G2/S5)	OS initiated shutdown. All devices in the system are turned off completely.
Working (G0/S0)	Individual devices such as the CPU and hard disc may be power managed in this state.
Suspend to RAM (S3)	• CPU set power down • VGA Suspend • PCMCIA Suspend • Audio Power Down • Hard Disk Power Down • CD-ROM Power Down • Super I/O Low Power mode
Save to Disk (S4)	Also called Hibernation Mode. System saves all system states and data onto the disc prior to power off the whole system.

Card Reader

Item	Specification
Chipset	AU6437
Package	LQFP 48P
Maximum supported size	16G
Features	2 in 1 card reader, supporting: • Secure Digital™ (SD) Card, MultiMediaCard™ (MMC) • Storage cards with adapter: miniSD™

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System LED Indicator

Item	Specification
Lock	• Caps Lock on = Blue • Caps Lock on = Blue
System state	• Blue color on: System on • Blue color and amber color off: System off • Amber color on: S3
HDD access state	HDD access active = Blue
Wireless state	Wifi on = Amber
Power button backlight	• Blue color solid on: System on • Blue color off: System off
Battery state	• Full charging = Blue • Battery charging = Amber
Back up state	Back up active = Blue
Arcade module state	Arcade module active = Blue
Finger print module state	Finger print module active = Blue

System DMA Specification

Legacy Mode	Power Management
DMA0	N/A
DMA1	N/A
DMA2	N/A
DMA3	N/A
DMA4	Direct memory access controller
DMA5	Available for ExpressCard
DMA6	Not Assigned
DMA7	Not Assigned
*ExpressCard controller can use DMA 1, 2, or 5.	

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System Interrupt Specification

Hardware IRQ	System Function
IRQ0	System timer
IRQ1	Standard 101-/102-Key or Microsoft® Natural Keyboard
IRQ2	Cascaded
IRQ3	Hudson-M1 define
IRQ5*	• Conexant AC-Link Audio Intel 82801DB/DBM SMBus Controller-24C3 Data Fax • Modem with SmartCP
IRQ6	Diskette drive
IRQ7*	Parallel port
IRQ8	System CMOS/real-time clock
IRQ9*	Microsoft ACPI-compliant system
IRQ10*	• Intel USB UHCI controller-24C2 • Intel 82852/82855 GM/GME Graphic Controller • Realtek RTL8139 Family PCI Fast Ethernet Controller
IRQ11	• Intel USB EHCI controller-24CD • Intel USB UHCI controller-24C4 • Intel USB UHCI controller-24C7 • Intel Pro/Wireless 2200BG • TI OHCI 1394 host controller • TI PCI1410 CardBus controller
IRQ12	Synaptics PS/2 Touchpad
IRQ13	Numeric data processor
IRQ14	Primary IDE channel
IRQ15	Secondary IDE channel
*Default configuration; audio possible configurations are IRQ5, IRQ7, IRQ9, IRQ10, or none.	
NOTE: Express Cards may assert IRQ3, IRQ4, IRQ5, IRQ7, IRQ9, IRQ10, IRQ11, or IRQ15. Either the infrared or the serial port may assert IRQ3 or IRQ4.	

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System IO Address Map

I/O address (hex)	System Function (shipping configuration)
000 - 00F	DMA controller no. 1
010 - 01F	Unused
020 - 021	Interrupt controller no. 1
022 - 024	Opti chipset configuration registers
025 - 03F	Unused
02E - 02F	87334 "Super I/O" configuration for CPU
040 - 05F	Counter/timer registers
044 - 05F	Unused
060	Keyboard controller
061	Port B
062 - 063	Unused
064	Keyboard controller
065 - 06F	Unused
070 - 071	NMI enable/RTC
072 - 07F	Unused
080 - 08F	DMA page registers
090 - 091	Unused
092	Port A
093 - 09F	Unused
0A0 - 0A1	Interrupt controller no. 2
I/O Address (hex)	System function (shipping configuration)
0A2 - 0BF	Unused
0C0 - 0DF	DMA controller no. 2
0E0 - 0EF	Unused
0F0 - 0F1	Coprocessor busy clear/reset
0F2 - 0FF	Unused
100 - 16F	Unused
170 - 177	Secondary fixed disk controller
178 - 1EF	Unused
1F0 - 1F7	Primary fixed disk controller
1F8 - 200	Unused
201	JoyStick (decoded in ESS1688)
202 - 21F	Unused

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System I/O Address Specifications

I/O address (hex)	System Function (shipping configuration)
220 - 22F	Entertainment audio
230 - 26D	Unused
26E - 26	Unused
278 - 27F	Unused
280 - 2AB	Unused
2A0 - 2A7	Unused
2A8 - 2E7	Unused
2E8 - 2EF	Reserved serial port
2F0 - 2F7	Unused
2F8 - 2FF	Infrared port
300 - 31F	Unused
320 - 36F	Unused
370 - 377	Secondary diskette drive controller
378 - 37F	Parallel port (LPT1/default)
380 - 387	Unused
388 - 38B	FM synthesizer-OPL3
38C - 3AF	Unused
3B0 - 3BB	VGA
3BC - 3BF	Reserved (parallel port/no EPP support)
3C0 - 3DF	VGA
3E0 - 3E1	ExpressCard controller in CPU
3E2 - 3E3	Unused
3E8 - 3EF	Internal modem
3F0 - 3F7	"A" diskette controller
3F8 - 3FF	Serial port (COM1/default)
CF8 - CFB	PCI configuration index register
(PCIDIVO-1)	CFC - CFF PCI configuration data register

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CHAPTER 2

System Utilities

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BIOS Setup Utility 2-3
Navigating the BIOS Utility 2-3
BIOS 2-4
Information 2-4
Main 2-6
Security 2-8
Boot 2-12
Exit 2-13
BIOS Flash Utilities 2-14
DOS Flash Utility 2-15
WinFlash Utility 2-17
Clearing BIOS Passwords 2-18
Removing BIOS Passwords 2-19
Miscellaneous Tools 2-21
Using DMITools 2-21
Using the LAN MAC EEPROM Utility 2-25
Crisis Disk Recovery 2-26

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System Utilities

BIOS Setup Utility

This utility is a hardware configuration program built into a computer's BIOS (Basic Input/Output System).

The utility is pre-configured and optimized so most users do not need to run it. If configuration problems occur, the setup utility may need to be run. Refer to *Chapter 4, Troubleshooting* when a problem arises.

To activate the utility, press ***F2*** during POST (power-on self-test) when prompted at the bottom of screen.

The default parameter of `F12 Boot Menu` is set to `Disabled`. To change the boot device without entering *BIOS Setup Utility*, set the parameter to `Enabled`.

To change the boot device without entering the BIOS SETUP, press ***F12*** during POST to enter the multi-boot menu.

Navigating the BIOS Utility

Six menu options are:

- Information
- Main
- Security
- Boot
- Exit

To navigate through the following:

- Menu - use the left and right arrow keys
- Item - use the up and down arrow keys
- Change parameter value - press ***F5*** or ***F6***.
- Exit - Press ***Esc***
- Load default settings - press ***F9***. Press ***F10*** to save changes and exit BIOS Setup Utility

NOTE:

Parameter values can be changed if enclosed in square brackets open the DIMM door open the DIMM door[ ]. Navigation keys appear at the bottom of the screen. Read parameter help carefully when making changes to parameter values. Parameter help is found in the Item Specific Help area of the screen.

NOTE:

System information is subject to specific models.

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BIOS

The following is a description of the tabs found on the InsydeH20 *BIOS Setup Utility* screen:

NOTE:
The screens provided are for reference only. Actual values may differ by model.

Information

The Information tab shows a summary of computer hardware information.

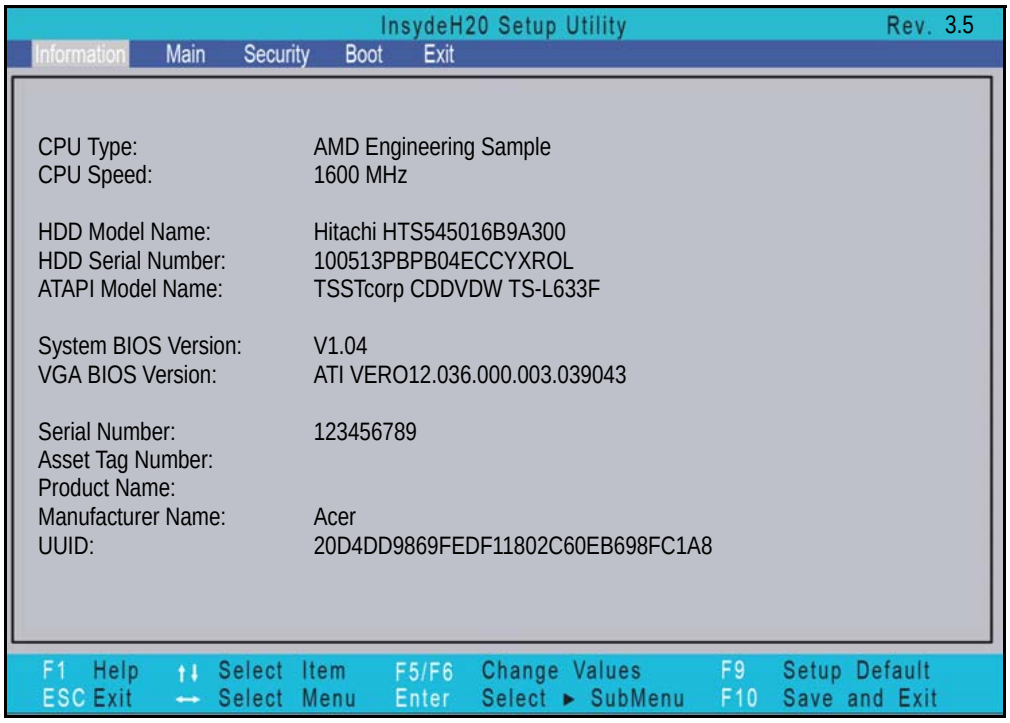

Figure 2-1. BIOS Information

Table 2-1 describes the parameters shown in Figure 2-1

Table 2-1. BIOS Information

Parameter	Description
CPU Type	CPU (central processing unit) type and speed of system
CPU Speed	Speed of the CPU
HDD Model Name	Model name of HDD (hard disk drive) installed on primary IDE master
HDD Serial Number	Serial number of HDD installed on primary IDE master
ATAPI Model Name	Model name of Optical device installed in system
System BIOS Version	System BIOS version

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Table 2-1. BIOS Information (Continued)

Parameter	Description
VGA BIOS Version	VGA (video graphics array) firmware version of system
Serial Number	Serial number of unit
Asset Tag Number	Asset tag number of system
Product Name	Product name of the system
Manufacturer Name	Manufacturer of system
UUID	Universally Unique Identifier

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Main

The Main tab allows the user to set system time and date, enable or disable boot option and enable or disable recovery.

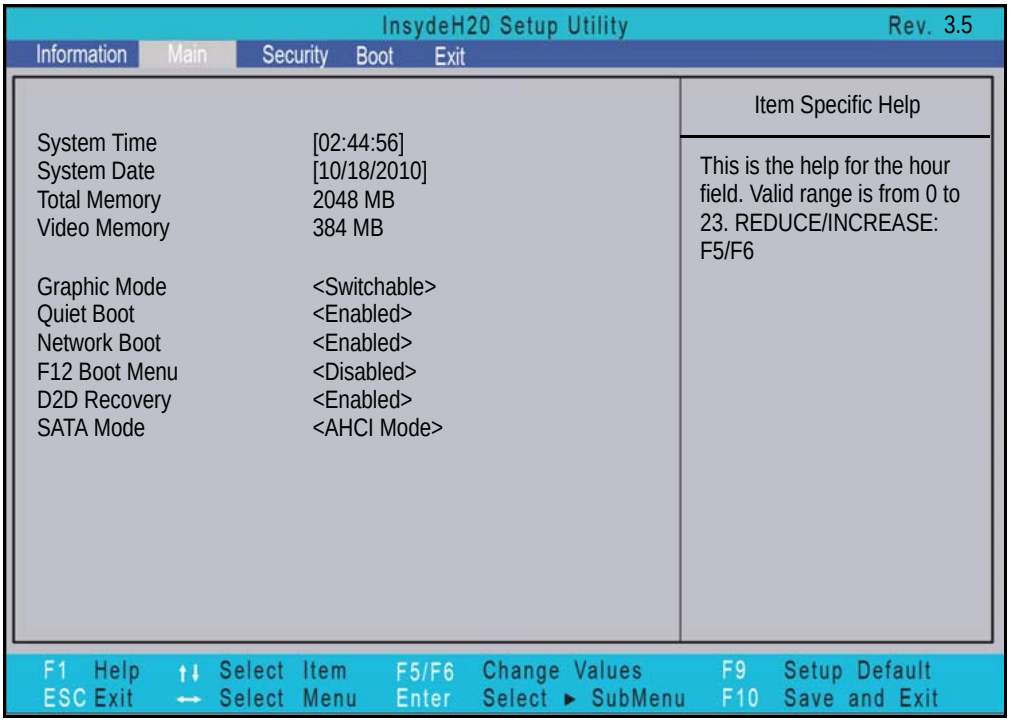

Figure 2-2. BIOS Main

Table 2-2 describes the parameters shown in Figure 2-2.

Table 2-2. BIOS Main

Parameter	Description	Format/Option
System Time	BIOS system time in 24-hour format	Format: HH:MM:SS (hour:minute:second)
System Date	BIOS system date	Format MM/DD/YYYY (month/day/year)
Total Memory	Total memory available	N/A
Video Memory	Available memory for video	N/A
Graphic Mode	Shows graphic mode options	Option: Switchable or Discrete
Quiet Boot	Shows OEM (original equipment manufacturer) screen during system boot instead of traditional POST screen	Option: Enabled or Disabled
Network Boot	Option to boot system from LAN (local area network)	Option: Enabled or Disabled

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Table 2-2. BIOS Main (Continued)

Parameter	Description	Format/Option
F12 Boot Menu	Option to use boot menu during POST	Option: Enabled or Disabled
D2D Recovery	Option to use D2D Recovery function	Option: Enabled or Disabled
SATA Mode	Option to set SATA controller mode	Option: AHCI or IDE

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Security

The Security tab shows parameters that safeguard and protect the computer from unauthorized use.

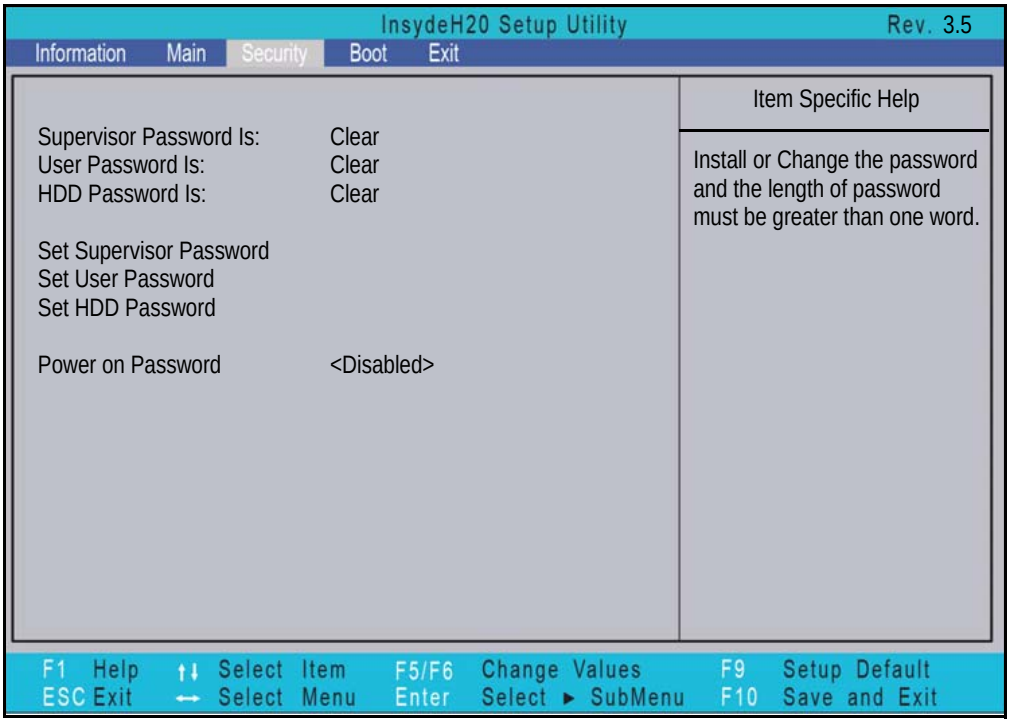
InsydeH20 Setup Utility
Rev. 3.5
Information
Main
Security
Boot
Exit
Item Specific Help
Supervisor Password Is: Clear
User Password Is: Clear
HDD Password Is: Clear
Set Supervisor Password
Set User Password
Set HDD Password
Power on Password <Disabled>
Install or Change the password and the length of password must be greater than one word.
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▶ SubMenu F10 Save and Exit

Figure 2-3. BIOS Security

Table 2-3 describes the parameters shown in Figure 2-3.

Table 2-3. BIOS Security

Parameter	Description	Option
Supervisor Password Is	Supervisor password setting	Clear or Set
User Password Is	User password setting	Clear or Set
HDD Password Is	HDD password setting	Clear or Set
Set Supervisor Password	Option to set supervisor password	N/A
Set User Password	Option to set user password	N/A
Set HDD Password	Option to set HDD password	N/A
Password on Boot	Shows if password is required during system boot ⚠ **CAUTION:** If Power-on-Password authentication is enabled, the BIOS password can only be cleared by initiating the Crisis Disk Recovery procedure. Refer to Crisis Disk Recovery.	Disabled or Enabled

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⇛ NOTE:

When prompted to enter password, three attempts are allowed before system halts. Resetting BIOS password may require computer be returned to dealer.

Setting a Password

Perform the following to set user or supervisor passwords:

1. Use the ↑ and ↓ keys to highlight the `Set Supervisor Password` parameter and press ***Enter***. The `Set Supervisor Password` dialog box appears.

⇛ NOTE:

To change an existing password, refer to *Changing a Password*.

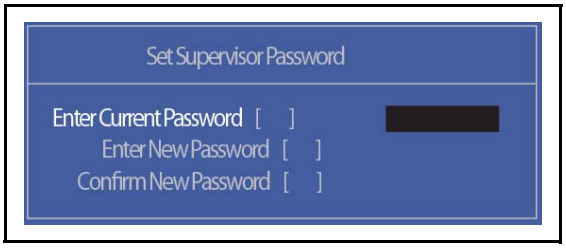

Figure 2-4. Set Supervisor Password

2. Type a new password in the `Enter New Password` field. Passwords are not case sensitive and the length must not exceed 12 alphanumeric characters (A-Z, a-z, 0-9). Retype the password in the `Confirm New Password` field.

+ IMPORTANT:

Use care when typing a password. Characters do not appear on the screen.

3. Press ***Enter***. After setting the password, the computer sets the `User Password` parameter to `Set`.

⇛ NOTE:

`Password on Boot` must be set to `Enabled` to activate password feature.

4. Press ***F10*** to save changes and exit *BIOS Setup Utility*.

Removing a Password

Perform the following:

1. Use the ↑ and ↓ keys to highlight `Set Supervisor Password` and press ***Enter***. The `Set Supervisor Password` dialog box appears:

Figure 2-5. Set Supervisor Password

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2. Type current password in `Enter Current Password` field and press ***Enter***.
3. Press ***Enter*** twice without typing anything in `Enter New Password` and `Confirm New Password` fields. Computer will set `Supervisor Password` parameter to `Clear`.
4. Press ***F10*** to save changes and exit the *BIOS Setup Utility*.

Changing a Password

1. Use the ↑ and ↓ keys to highlight `Set Supervisor Password` and press ***Enter***. The `Set Supervisor Password` dialog box appears.

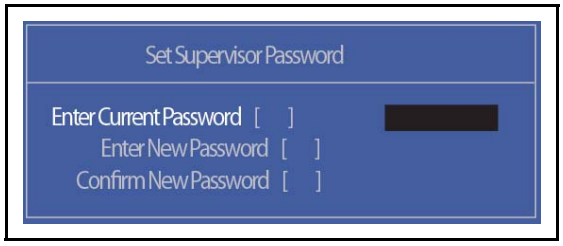

Figure 2-6. Set Supervisor Password

2. Type current password in `Enter Current Password` field and press ***Enter***.
3. Type new password in `Enter New Password` field. Retype new password in `Confirm New Password` field.
4. Press ***Enter***. Computer sets `Supervisor Password` parameter to `Set`.

NOTE:

`Password on Boot` must be set to `Enabled` to activate the password feature.

5. Press ***F10*** to save changes and exit *BIOS Setup Utility*.

If the verification is OK, the screen will show as follows.

Figure 2-7. Setup Notice

The password setting is complete after the user presses ***Enter***.

If the password entered does not match the current password, the screen shows the `Setup Warning` dialog. (Figure 2-8)

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Figure 2-8. Setup Warning: Invalid Password

If new password and confirm new password strings do not match, the `Setup Warning` dialog appears (Figure 2-9).

Figure 2-9. Setup Warning: Passwords Do Not Match

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Boot

The Boot tab allows changes to the order of boot devices used to load the operating system. Bootable devices include the:

- USB diskette drives
- Onboard hard disk drive
- DVD drive in the module bay

Use ↑ and ↓ keys to select a device and press ***F5*** or ***F6*** to change the value.

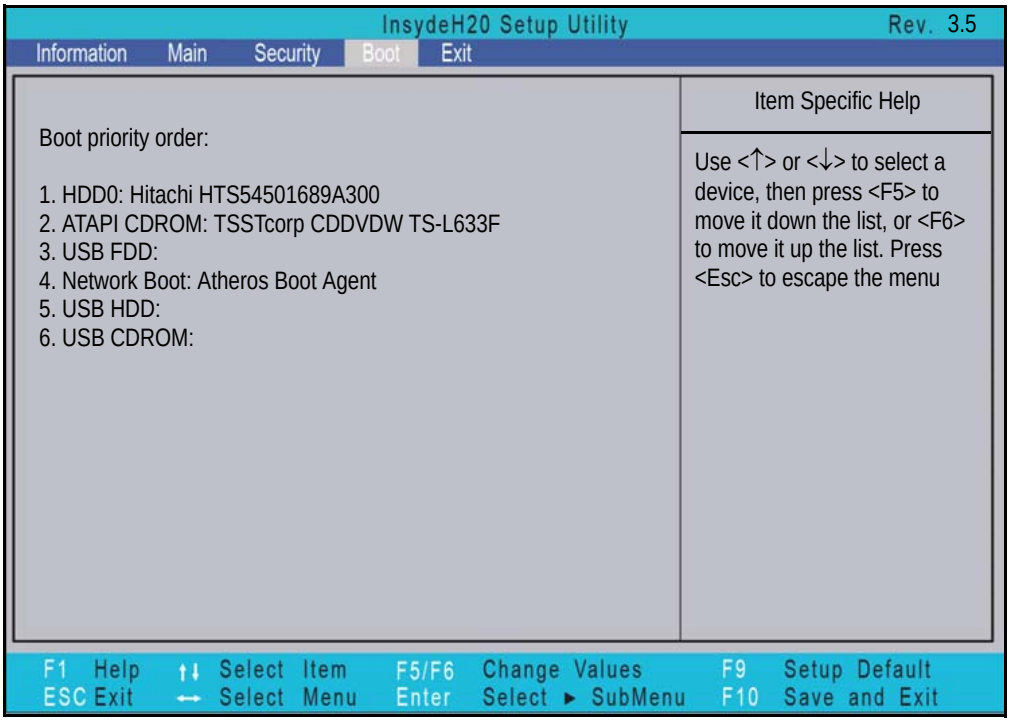
InsydeH20 Setup Utility
Rev. 3.5
Information
Main
Security
Boot
Exit
Item Specific Help
Boot priority order:
1. HDD0: Hitachi HTS54501689A300
2. ATAPI CDROM: TSSTcorp CDDVDW TS-L633F
3. USB FDD:
4. Network Boot: Atheros Boot Agent
5. USB HDD:
6. USB CDROM:
Use <↑> or <↓> to select a device, then press <F5> to move it down the list, or <F6> to move it up the list. Press <Esc> to escape the menu
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▸ SubMenu F10 Save and Exit

Figure 2-10. BIOS Boot

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Exit

The Exit tab allows users to save or discard changes and quit the *BIOS Setup Utility*.

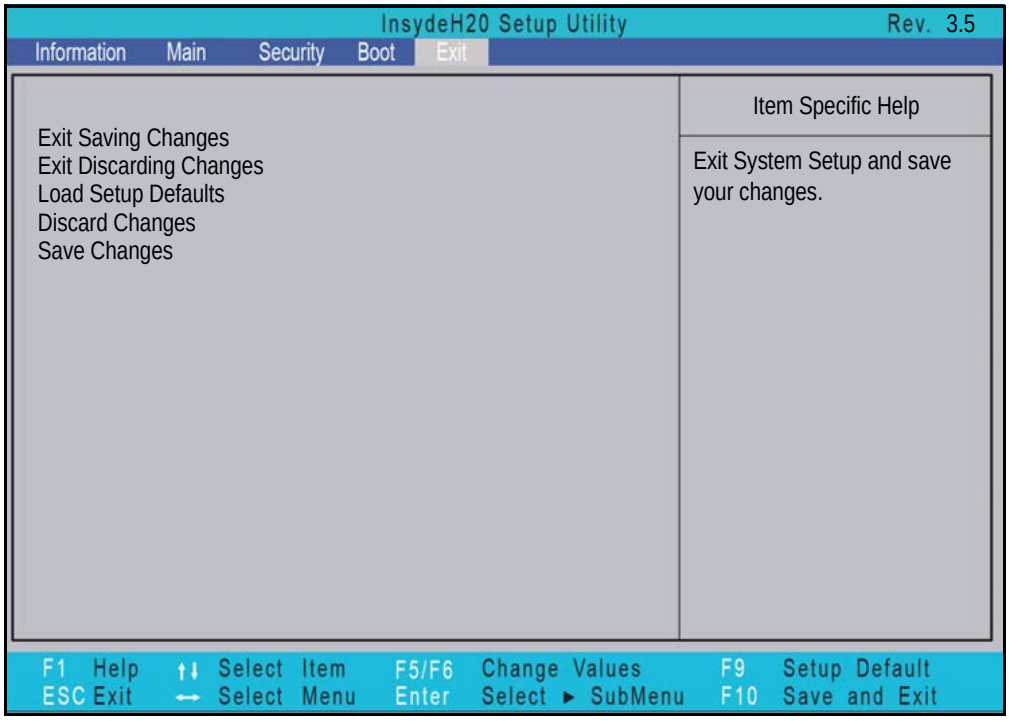

Figure 2-11. BIOS Exit

Table 2-4 describes the parameters in Figure 2-11.

Table 2-4. Exit Parameters

Parameter	Description
Exit Saving Changes	Exit BIOS utility and save setup item changes to system.
Save Change Without Exit	Save setup item changes to system without exiting.
Exit Discarding Changes	Exit BIOS utility without saving setup item changes to system.
Load Optimal Defaults	Load optimal default values for all setup items.
Load Custom Defaults	Load custom default values for all setup items.
Save Custom Defaults	Save setup item changes to system.
Discard Changes	Load previous values of all setup items.

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BIOS Flash Utilities

BIOS Flash memory updates are required for the following conditions:

- New versions of system programs
- New features or options
- Restore a BIOS when it becomes corrupted.

Use the Flash utility to update the system BIOS Flash ROM.

NOTE:
If a Crisis Recovery Disc is not available, create one before Flash utility is used.

NOTE:
Do not install memory related drivers (XMS, EMS, DPMI) when Flash is used.

NOTE:
Use AC adaptor power supply when running Flash utility. If battery pack does not contain power to finish loading BIOS Flash, do not boot system.

Perform the following to run Flash.

1. Prepare a bootable USB HDD.
2. Copy Flash utilities to bootable USB HDD.
3. Boot system from bootable USB HDD.

NOTE:
Flash utility has auto execution function.

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DOS Flash Utility

Perform the following to use the *DOS Flash Utility*:

1. Press ***F2*** during boot to enter `Setup Menu`.
2. Select `Boot Menu` to modify boot priority order.

Example: If using USB HDD to Update BIOS, move USB HDD to position 1.

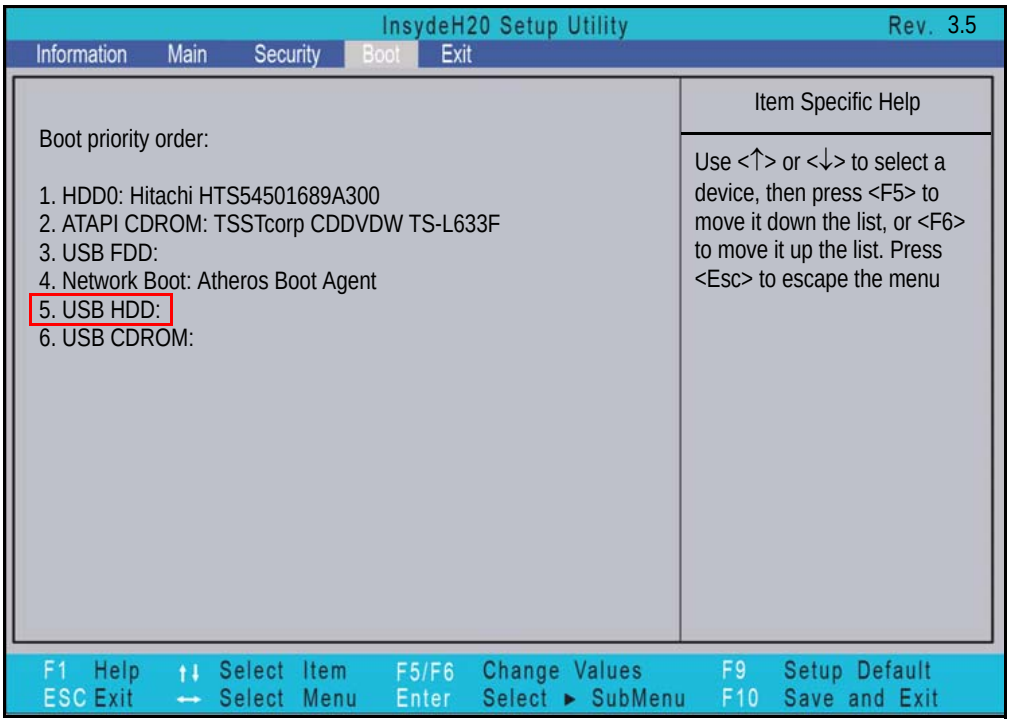
InsydeH20 Setup Utility
Rev. 3.5
Information
Main
Security
Boot
Exit
Item Specific Help
Boot priority order:
1. HDD0: Hitachi HTS54501689A300
2. ATAPI CDROM: TSSTcorp CDDVDW TS-L633F
3. USB FDD:
4. Network Boot: Atheros Boot Agent
5. USB HDD:
6. USB CDROM:
Use <↑> or <↓> to select a device, then press <F5> to move it down the list, or <F6> to move it up the list. Press <Esc> to escape the menu
F1 Help ↑↓ Select Item F5/F6 Change Values F9 Setup Default
ESC Exit ↔ Select Menu Enter Select ▸ SubMenu F10 Save and Exit

Figure 2-12. BIOS Boot

3. Insert the USB HDD and reboot computer.
4. Execute **`XEWX100.BAT`** to update BIOS. Flash process begins as shown in Figure 2-13.

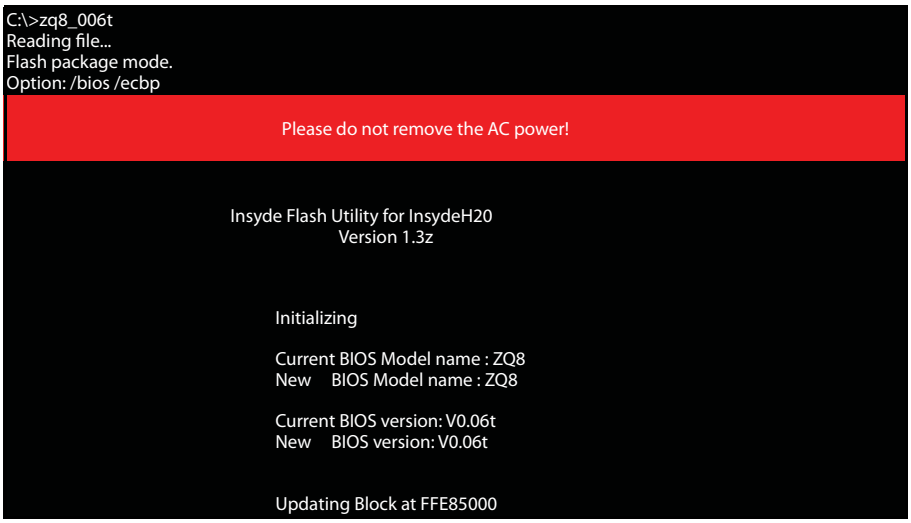

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Figure 2-13. DOS Flash Process

5. Flash is complete when the message, `Flash Programming Complete` is shown. System will restart automatically when finished.

NOTE:

If AC power is not connected, the following message is shown (Figure 2-14). Plug in the AC power to continue.

Figure 2-14. AC Power Warning

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Perform the following to use the WinFlash Utility:

1. Double-click WinFlash executable.
2. Click ***OK*** to begin update. A progress screen is shown. (Figure 2-15)

Figure 2-15. InsydeFlash

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Clearing BIOS Passwords

⚠ CAUTION:

If Power-on Password authentication is enabled, the BIOS password can only be cleared by initiating the Crisis Disk Recovery procedure or flashing the BIOS. See Crisis Disk Recovery.

This section provides details about removing HDD/BIOS passwords.

Clear the BIOS Password as follows:

NOTE:

If the BIOC password is incorrectly entered three times, an error is generated. (Figure 2-16)

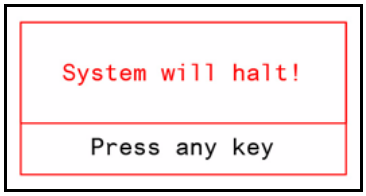

Figure 2-16. Password Error Status

To reset the BIOS password, perform the following:

1. Press any key to exit the menu.
2. In DOS mode, execute `ClearSuPw.exe`.

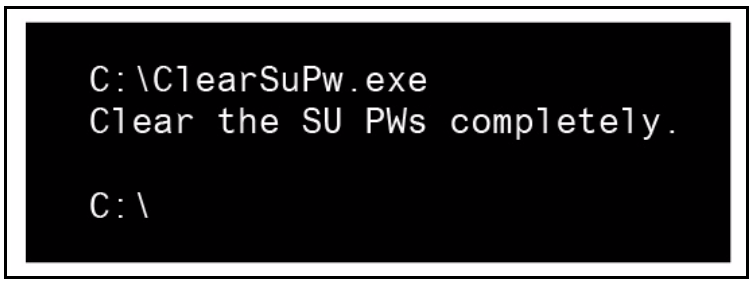

Figure 2-17. Clear BIOS Password

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Removing BIOS Passwords

(Hardware method) To clear User or Supervisor passwords, remove lower cover and use a metal instrument to short the CMOS jumper.

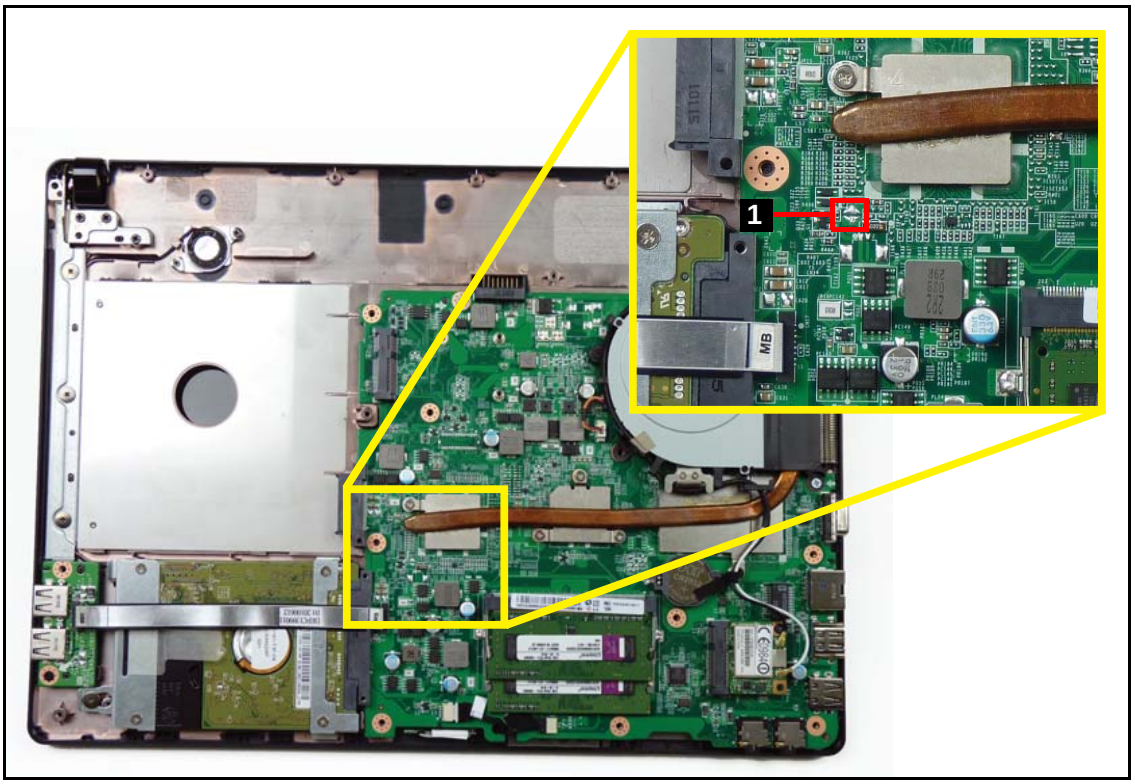

Figure 2-18. CMOS Jumper

Table 2-5. CMOS Jumper

Item	Description
1	Clear CMOS Jumper

(Software method) If wrong supervisor password is entered three times, the message `System will halt!` is displayed on screen.

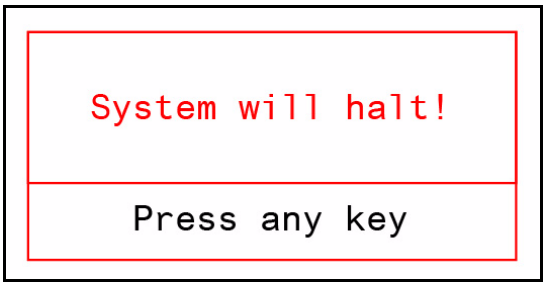

Figure 2-19. Supervisor Password Error

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If user is unable to obtain correct password then it must be removed. There are two methods to do this.

Method 1:

If BIOS menu item `Power on Password` is `set to Enabled`, then Crisis Recovery disc must be used.

Method 2:

If BIOS menu item `Power on Password` is set to `Disabled`.

1. Boot to DOS and execute *ClearSuPw.exe.* (Figure 2-20)

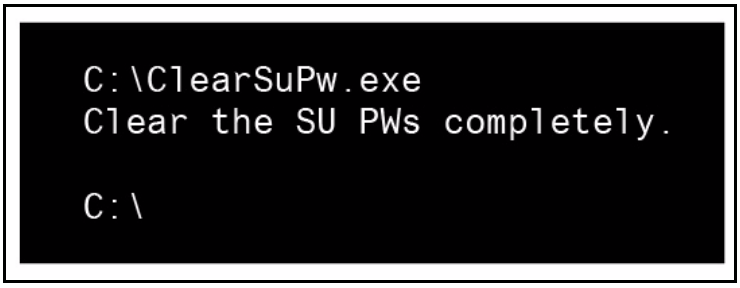

Figure 2-20. Clear Supervisor Password Utility

2. When message `Clear the SU Pws completely` is displayed, supervisor password has been removed.

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Miscellaneous Tools

Using DMITools

The DMI (Desktop Management Interface) Tool copies BIOS information to EEPROM (Electrically Erasable Programmable Read-Only Memory). Used in the DMI pool for hardware management.

When the BIOS shows **`Verifying DMI pool data,`** it is checking that the table correlates with the hardware before sending information to the operating system (Windows, etc.).

To update the DMI Pool, perform the following:

1. Boot to DOS.
2. Execute **`qdmi30a.exe`**. To execute a specific function, select the associated menu number.

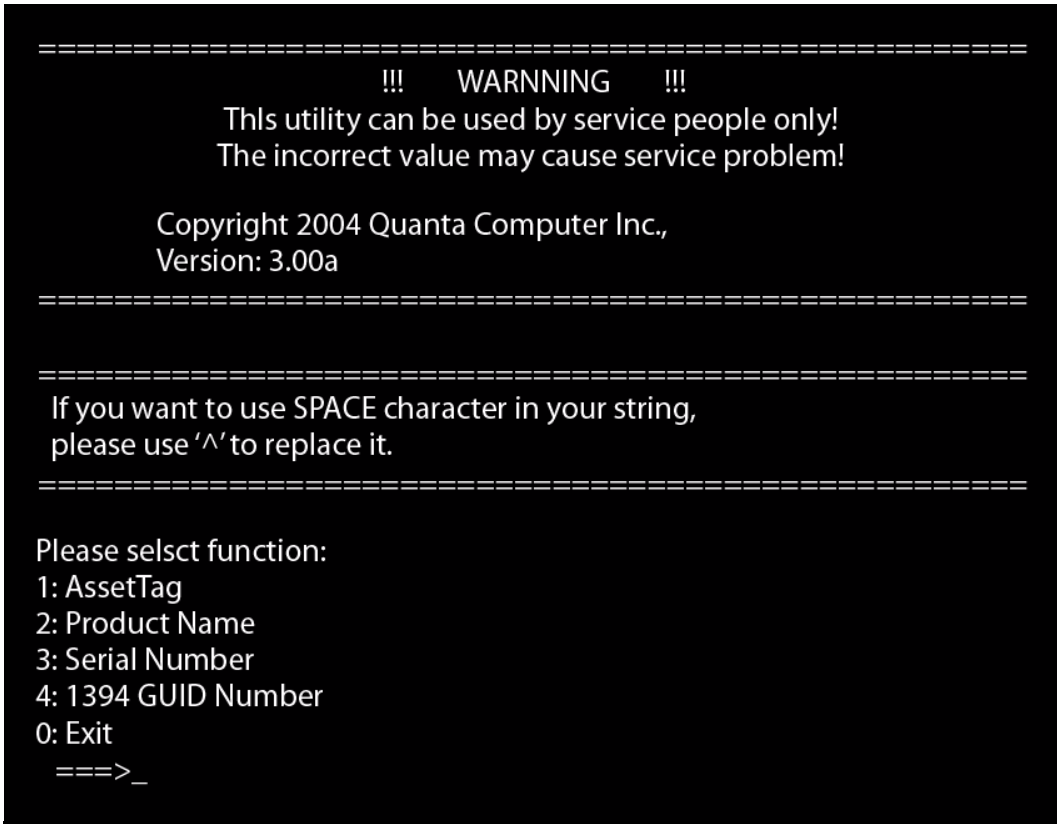
!!! WARNNING !!!
Thls utility can be used by service people only!
The incorrect value may cause service problem!
Copyright 2004 Quanta Computer Inc.,
Version: 3.00a
If you want to use SPACE character in your string,
please use '^' to replace it.
Please selsct function:
1: AssetTag
2: Product Name
3: Serial Number
4: 1394 GUID Number
0: Exit
===>_

Figure 2-21. DMI Tools Main Menu Screen

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3. Press **1** to modify the asset tag key.

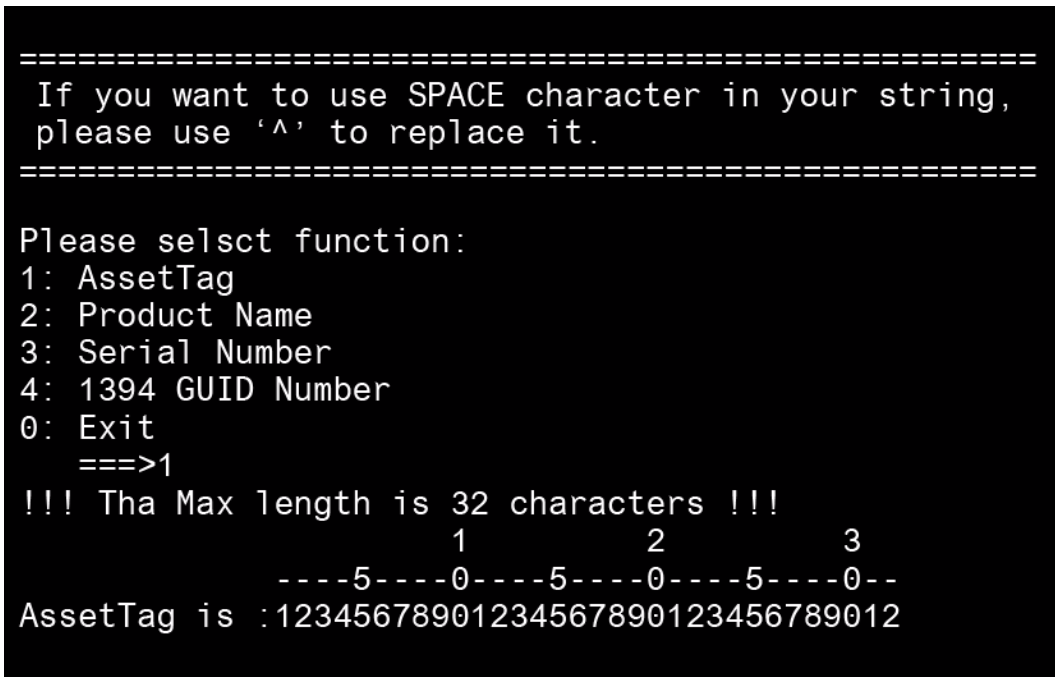

Figure 2-22. Asset Tag Menu Item

4. Press **2** to modify the product number key.

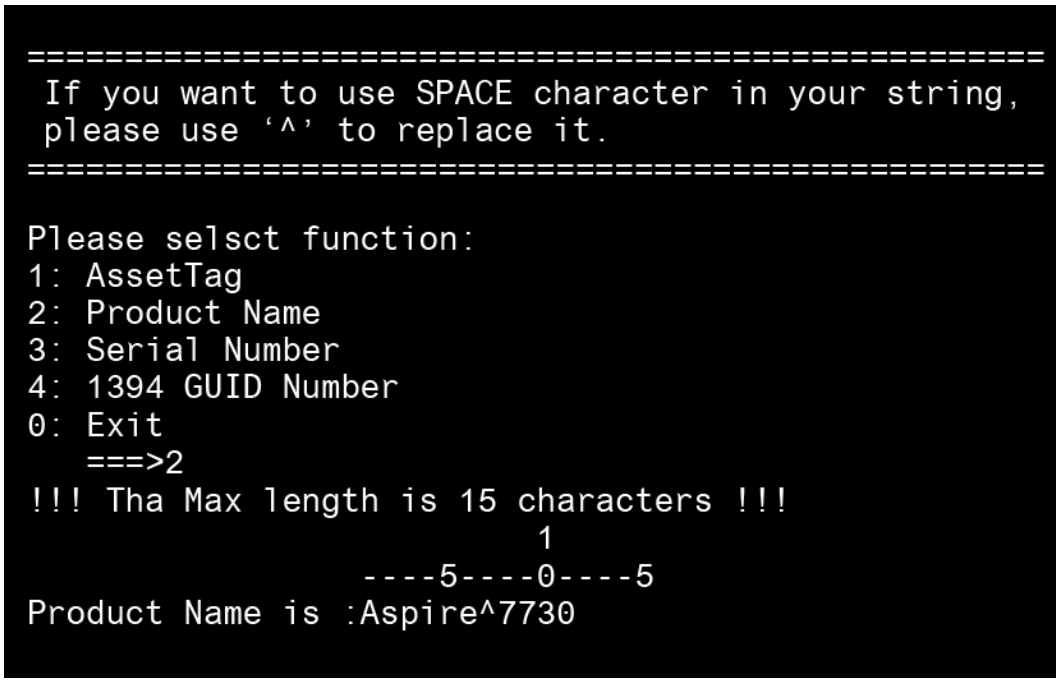

Figure 2-23. Product Name Menu Item

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5. Press **3** to modify serial number key.

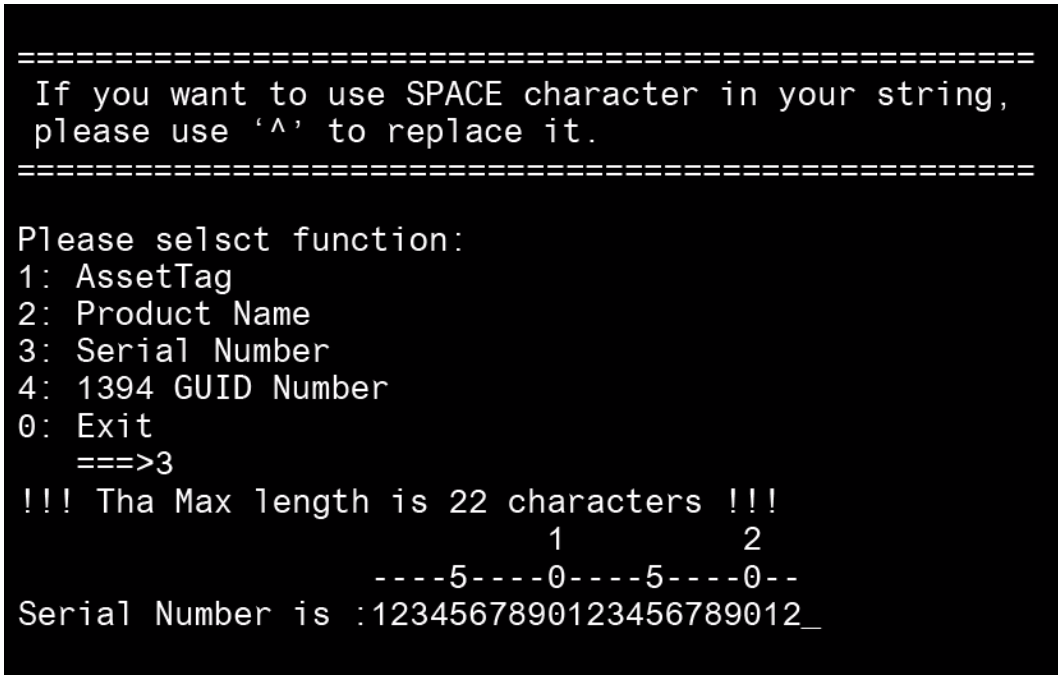

Figure 2-24. Serial Number Menu Item

6. Press **4** to modify the 1394 GUID number key.

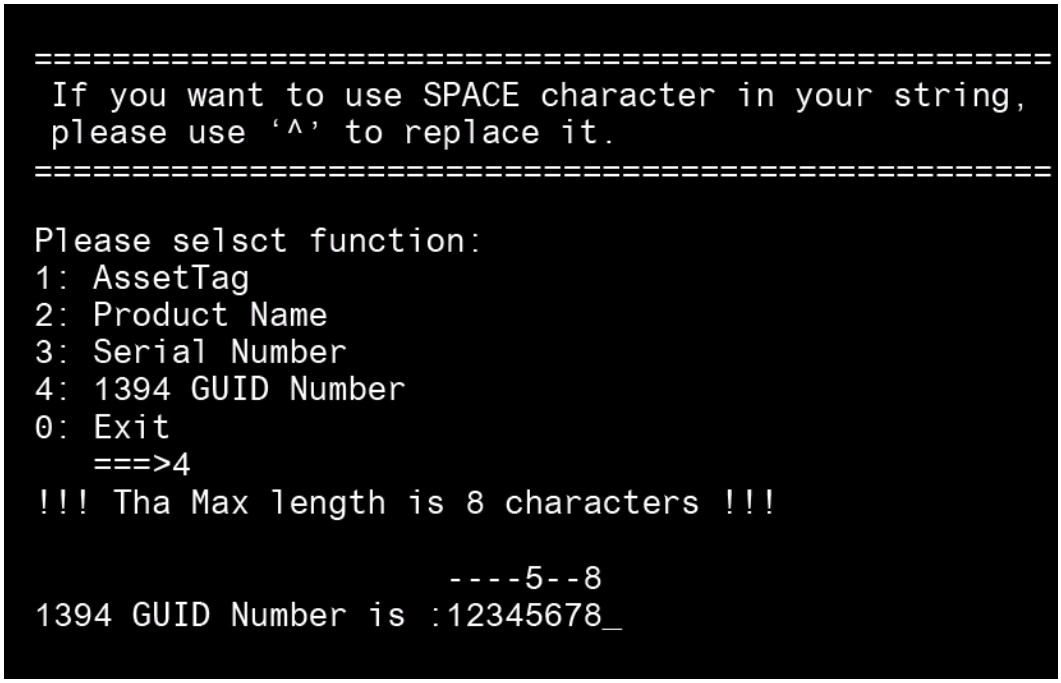

Figure 2-25. 1394 GUID Number Menu Item

7. Press **0** to exit.

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8. At the command prompt, type **VEEPROM** to write any changes in the data to the EEPROM.

Figure 2-26. VEEPROM Command Prompt

NOTE:

When using any of the write options, restart the system to make the new DMI data effective.

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Perform the following steps to write MAC (Media Access Control) information to EEPROM:

Use the*P.BAT* utility to write the *MAC.CFG* file to the EEPROM under DOS mode.

1. Use a text editor (Ex: Notepad) to open the *MAC.CFG* file. See the *MAC.CFG* contents in Figure 2-27

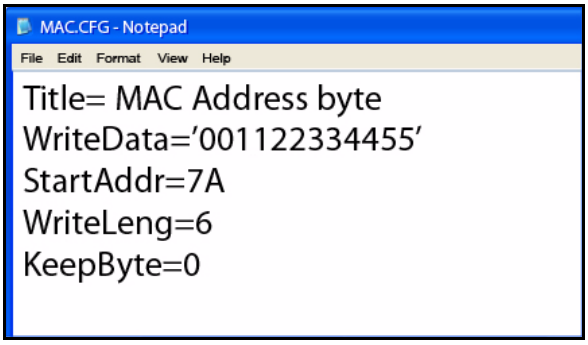

Figure 2-27. LAN MAC EEPROM

Table 2-6. LAM MAC EEPROM

Parameter	Description
WriteData = '001122334455'	MAC value
StartAddr=7A	MAC address
WriteLeng=6	MAC value length
KeepByte=0	Value not important

2. Enter into DOS.
3. Run the *P.BAT* file to write MAC values to EEPROM.
4. Reboot the system when the process has completed.

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1. Plug in the USB flash disk.
2. Select the ***Fast Format*** option and click ***Start***. Then click ***Next***.

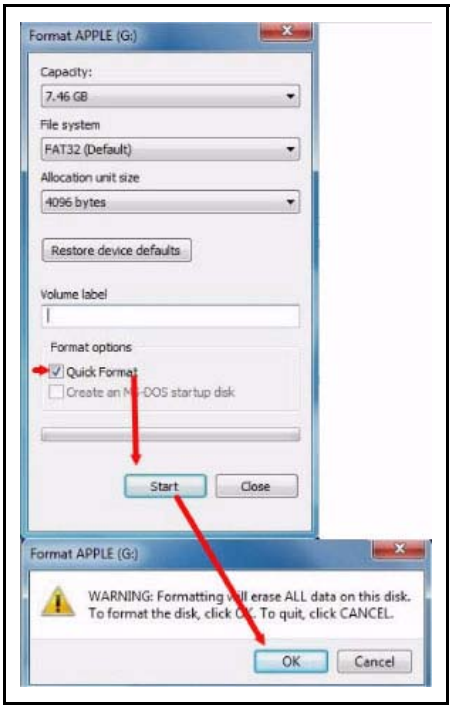

Figure 2-28. USB Flash Crisis Disk

3. Click ***Format*** and then ***Exit*** to complete the operation.

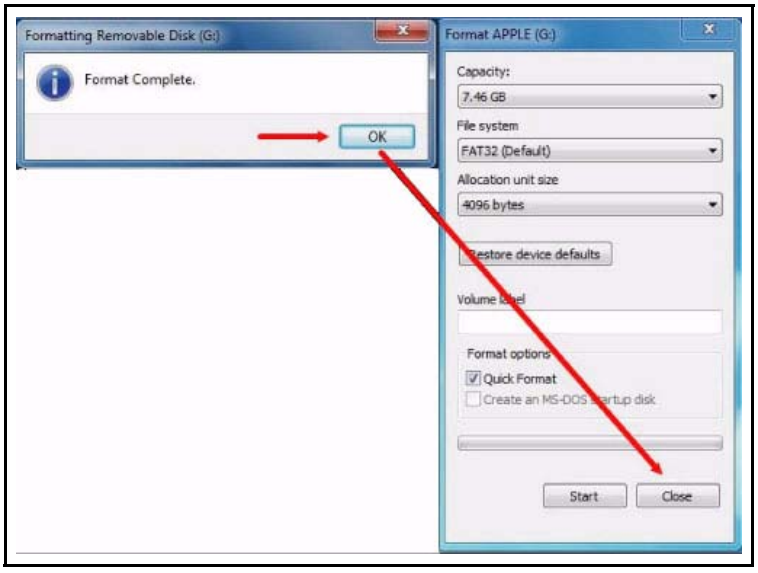

Figure 2-29. USB Flash Crisis Disk

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4. Copy the *BIOS HM40X64.bin* file to the USB flash disk root directory.

NOTE:

Do not place any other *.fd files to the USB flash disk root directory.

5. Plug in the USB Flash Disk without AC plug.
6. Press ***Fn*** + ***Esc*** keys and hold them down, then plug in AC power. The power button flashes orange.
7. Press ***Power*** button and the system will enter crisis mode to flash the BIOS.

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CHAPTER 3

Machine Maintenance Procedures

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Introduction 3-5
General Information 3-5
Recommended Equipment 3-5
Maintenance Flowchart. 3-6
Getting Started 3-7
Battery Pack Removal. 3-8
Battery Pack Installation 3-8
Dummy Card Removal 3-9
Dummy Card Installation 3-9
Keyboard Removal 3-10
Keyboard Installation. 3-11
ODD (Optical Disk Drive) Module Removal 3-12
ODD Module Installation. 3-13
Lower Cover Removal 3-14
Lower Cover Installation 3-15
DIMM (Dual In-line Memory Module) Module Removal 3-16
DIMM Module Installation. 3-17
WLAN (Wireless Local Area Network) Module Removal 3-18
WLAN Module Installation 3-19
USB Module Removal. 3-20
USB Module Installation 3-20
RTC Battery Removal 3-21
RTC Battery Installation 3-21
Bluetooth Module Removal. 3-22
Bluetooth Module Installation 3-23
Thermal Module Removal 3-24
Thermal Module Installation 3-25
HDD (Hard Disk Drive) Module Removal 3-27
HDD Module Installation 3-28
Mainboard Removal. 3-29
Mainboard Installation 3-30
LCD (Liquid Crystal Display) Module Removal 3-31
LCD Module Installation 3-32
Speaker Removal 3-33
Speaker Installation 3-34
LCD Bezel Removal. 3-35
LCD Bezel Installation 3-36
Camera Module Removal. 3-37
Camera Module Installation 3-38
LCD Panel Removal. 3-39
LCD Panel Installation 3-40
LCD Bracket Removal 3-41
LCD Bracket Installation. 3-41

Downloaded from www.Manualslib.com manuals search engine

LVDS Cable Removal 3-42
LVDS Cable Installation 3-43
WLAN Antenna Removal 3-44
WLAN Antenna Installation. 3-44

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Machine Maintenance Procedures

Introduction

This chapter contains general information about the computer, a list of tools needed to do the required maintenance and step by step procedures on how to remove and install components from the computer.

General Information

The product previews seen in the following procedures may not represent the final product color or configuration. Cable paths and positioning may also differ from the actual model. During the removal and installation of components, make sure all available cable channels and clips are used and that the cables are installed in the same position.

All prerequisites must be completed prior to starting maintenance.

Recommended Equipment

The following equipment are recommended to do the following maintenance procedures:

- Wrist grounding strap and conductive mat
- Flat screwdriver
- Philips screwdriver
- Plastic tweezers
- Flat plastic pry

Table 3-1. Screw List

Size	Quantity	Acer Part No.
M2.5*6.0	18	86.ARE07.001
M2.0*3.0	12	86.ARE07.002
M2.5*3.0 Ni	2	86.R6Z07.001
M2.5*4.0	14	86.PSR07.001
M2.0*2.0	1	86.W4107.002
M3.0*3.0 Ni	4	86.N1407.007

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Maintenance Flowchart

The flowchart in Figure 3-1 shows a graphic representation of the module removal and installation sequences. It shows information on what components may need to be removed and installed during servicing.

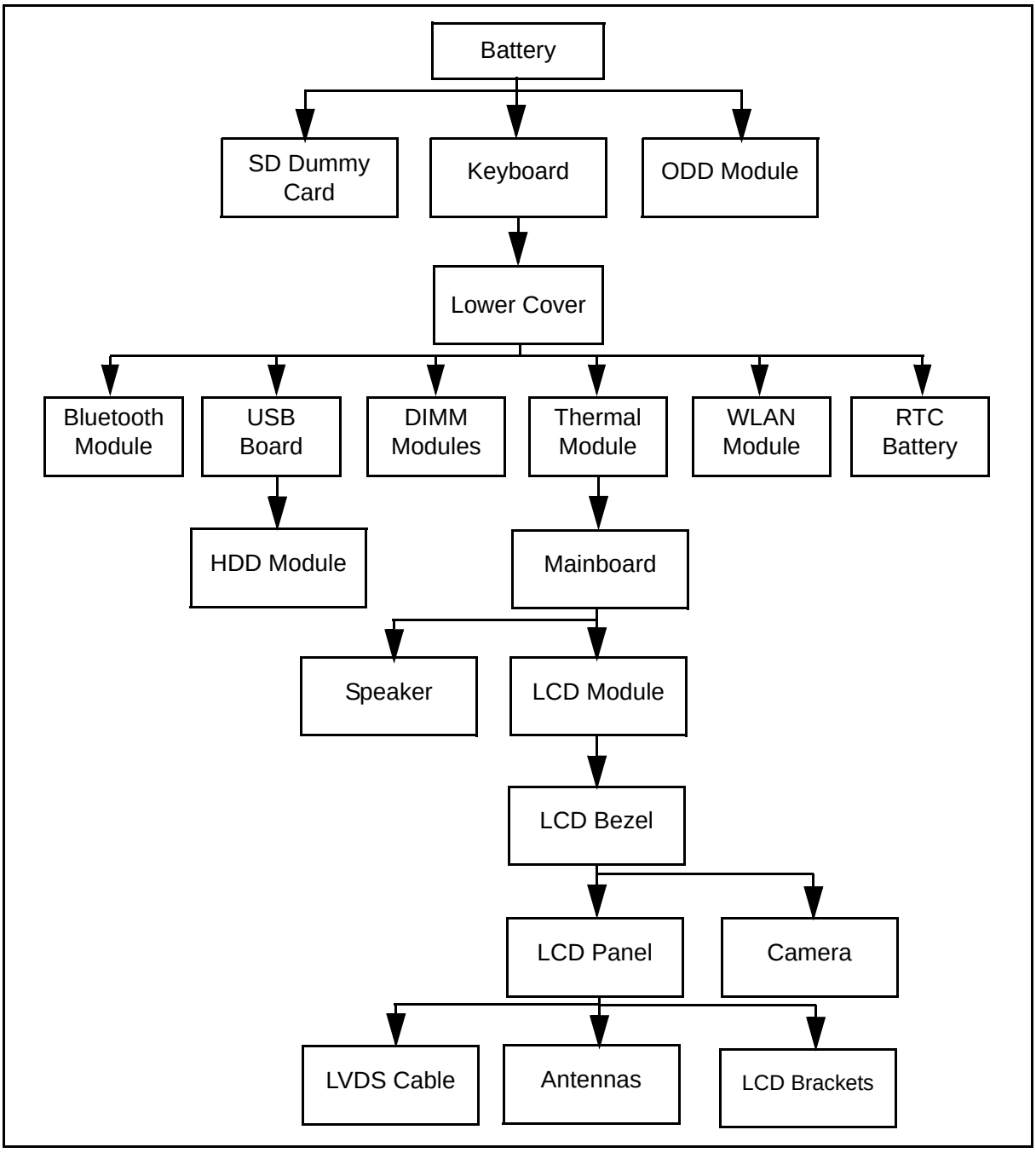

Figure 3-1. Maintenance Flow

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Getting Started

Flowchart Figure 3-1 identifies sections for the removal and install sequence. Follow the order of the sequence to avoid damage to any of the hardware components.

Do the following prior to starting any maintenance procedures:

1. Remove power (A) from the system and peripherals.
2. Remove all cables from system.

Figure 3-2. AC Adapter Outlet

3. Put system on a stable work surface.

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Battery Pack Removal

1. Put computer on flat surface, battery side up.
2. Push battery lock/unlock latch (A) to unlock position (Figure 3-3).
3. Push and hold battery release latch (B) to release position (Figure 3-3).
4. Lift battery pack (C) from battery bay (Figure 3-3).

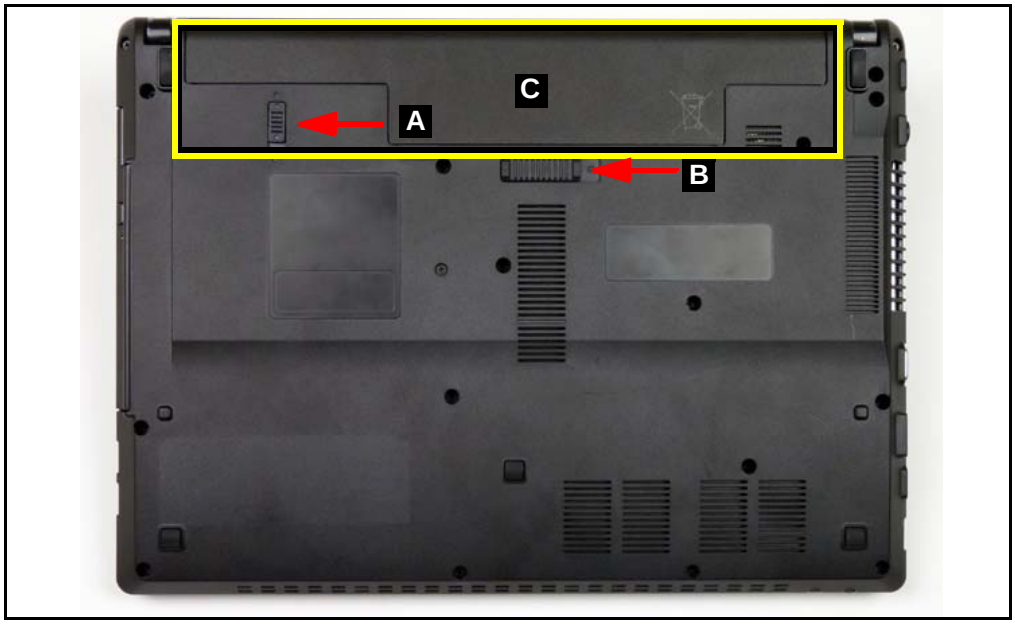

Figure 3-3. Battery

+ **IMPORTANT:**

  Follow local regulations for battery (C) disposal (Figure 3-3).

Battery Pack Installation

1. Hold latch (B) in release position and install battery (C) (Figure 3-3).
2. Lock battery lock/unlock latch (A) (Figure 3-3).

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Dummy Card Removal

1. Push dummy card (A) in to release it from the spring latch (Figure 3-4).
2. Remove dummy card (A) (Figure 3-4).

Figure 3-4. Dummy Card

Dummy Card Installation

1. Insert dummy card (A) (Figure 3-4).
2. Push card until spring latch locks.

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Keyboard Removal

Prerequisite:

Battery Pack Removal

1. Release seven (7) latches from the keyboard (Figure 3-5).

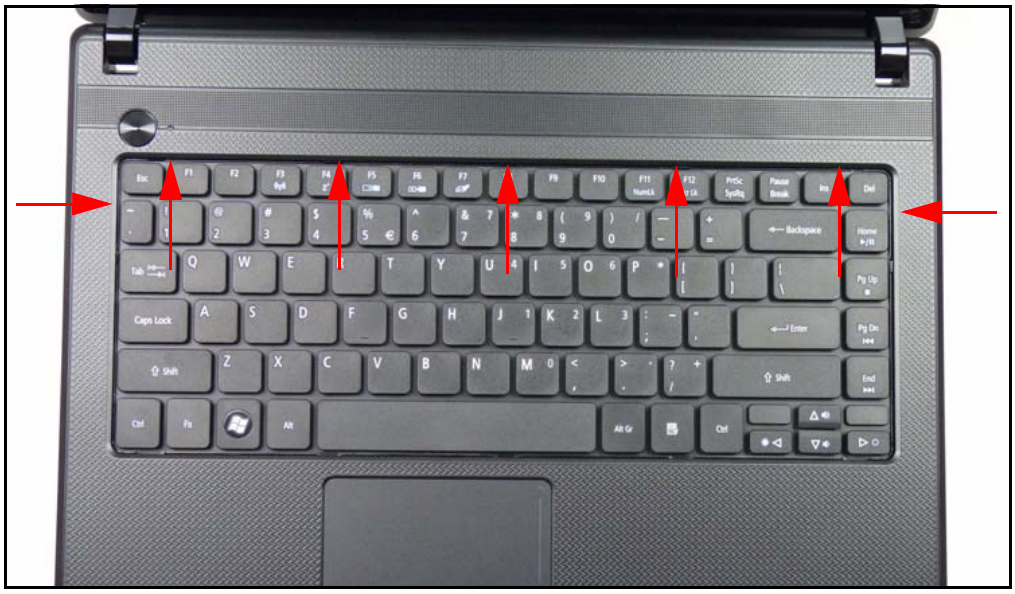

Figure 3-5. Keyboard Latches

2. Turn the keyboard over so that the keys are face down on the palm rest (C) (Figure 3-6).
3. Disconnect keyboard FPC (A) from mainboard connector (B) (Figure 3-6).

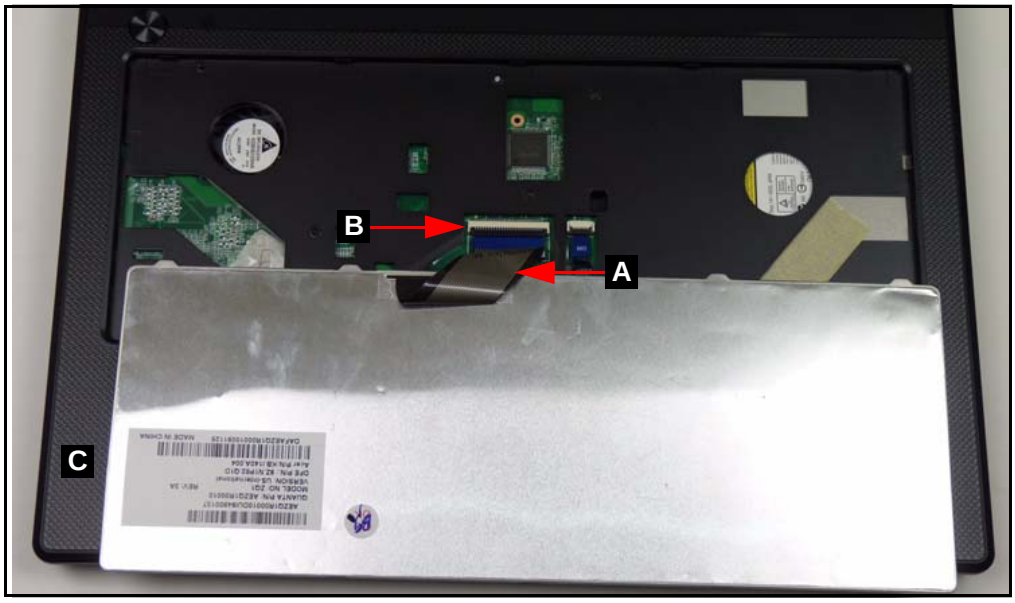

Figure 3-6. Keyboard FPC

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⚠ CAUTION:

Keyboard FPC (Flexible Printed Circuit) can be damaged if removed while mainboard connector is locked.

Keyboard Installation

1. Put the keyboard face down on the palm rest (C). Refer to Figure 3-6.
2. Connect keyboard FPC (A) to mainboard connector (B). Refer to Figure 3-6.
3. Turn the keyboard over and align the keyboard with the indentation in the upper cover.
4. Press down to secure the latches on the upper cover. Refer to Figure 3-5.
5. Install battery.

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ODD (Optical Disk Drive) Module Removal

Prerequisite:

Battery Pack Removal

1. Remove one (1) screw (A) from lower cover (Figure 3-7).

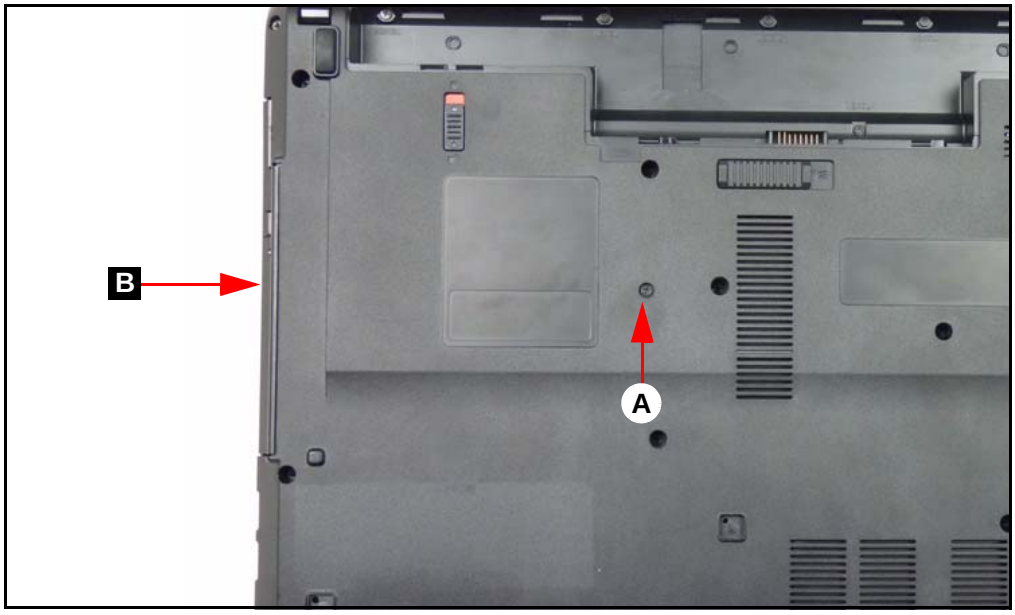

Figure 3-7. ODD Module in Lower Cover

2. Remove ODD module (B) from ODD bay (Figure 3-7).
3. Remove two (2) screws (C) from ODD module (Figure 3-8).
4. Remove ODD bracket (D) from ODD module.
5. Remove ODD bezel (E) from ODD module.

Figure 3-8. ODD Module

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ODD Module Installation

1. Install ODD bezel (E) on ODD module (Figure 3-8).
2. Install ODD bracket (D) on ODD module.
3. Secure two (2) screws (C).
4. Insert ODD module (B) into ODD module bay. Refer to Figure 3-7.
5. Install and secure screw (A) to lower cover.
6. Install battery.

ID	Size	Quantity	Screw Type
A	M2.5*6.0	1	
C	M2.0*3.0	2	

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Lower Cover Removal

Prerequisite:

ODD (Optical Disk Drive) Module Removal

1. Remove twenty three (23) securing screws from the lower cover. Refer to Figure 3-9.

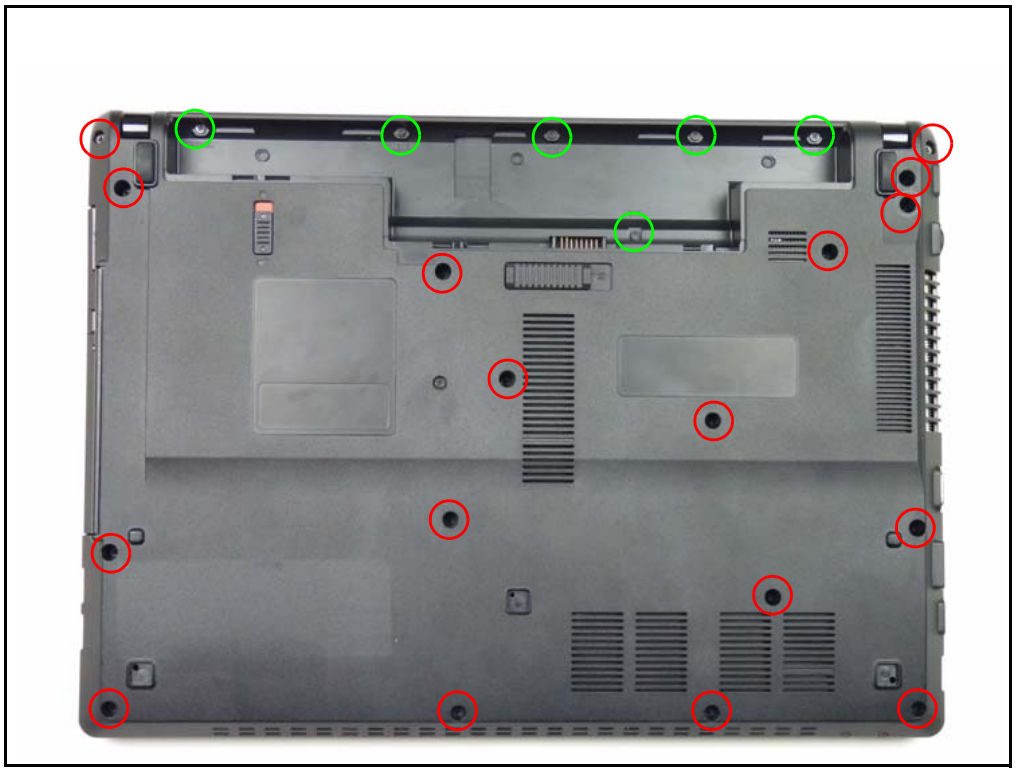

Figure 3-9. Lower Cover Screw Location

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2. Grasp the lower cover by the ODD bay (A) and the fan duct (B) and lift the lower cover from the upper cover (Figure 3-10).

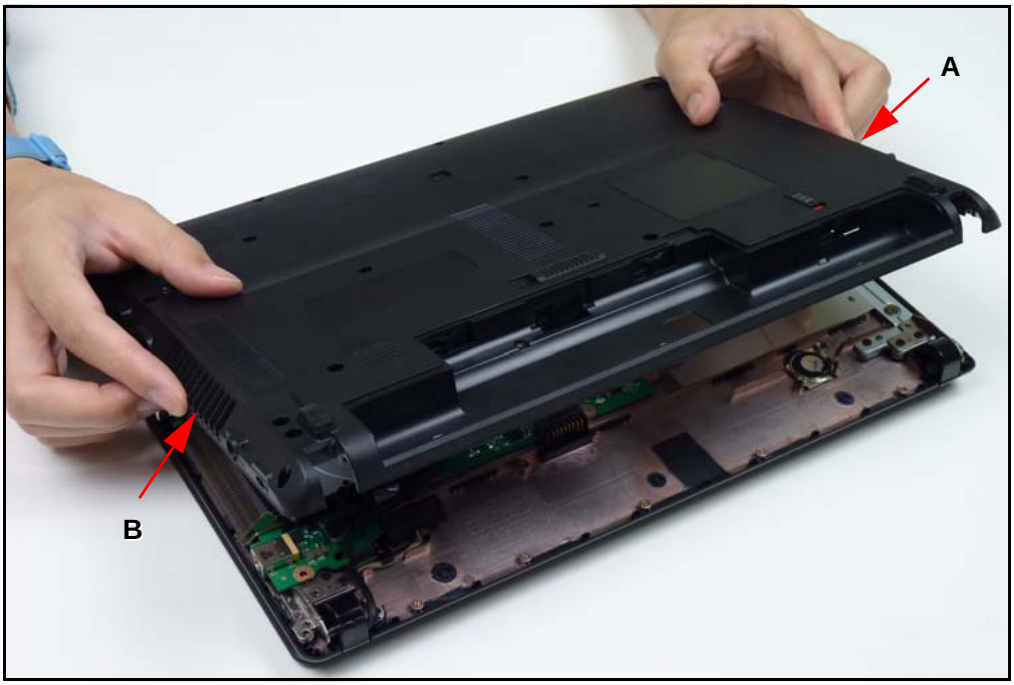

Figure 3-10. Lower Cover Removal

Lower Cover Installation

1. Align and lower cover onto the device (Figure 3-10).
2. Install and secure twenty three (23) screws to lower cover. Refer to Figure 3-9.
3. Install ODD.

ID	Size	Quantity	Screw Type
Green Call out	M2.0*3.0	6	
Red Call out	M2.5*6.0	17	

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DIMM (Dual In-line Memory Module) Module Removal

Prerequisite:

Lower Cover Removal

1. Find DIMM (D) on lower cover (Figure 3-11).

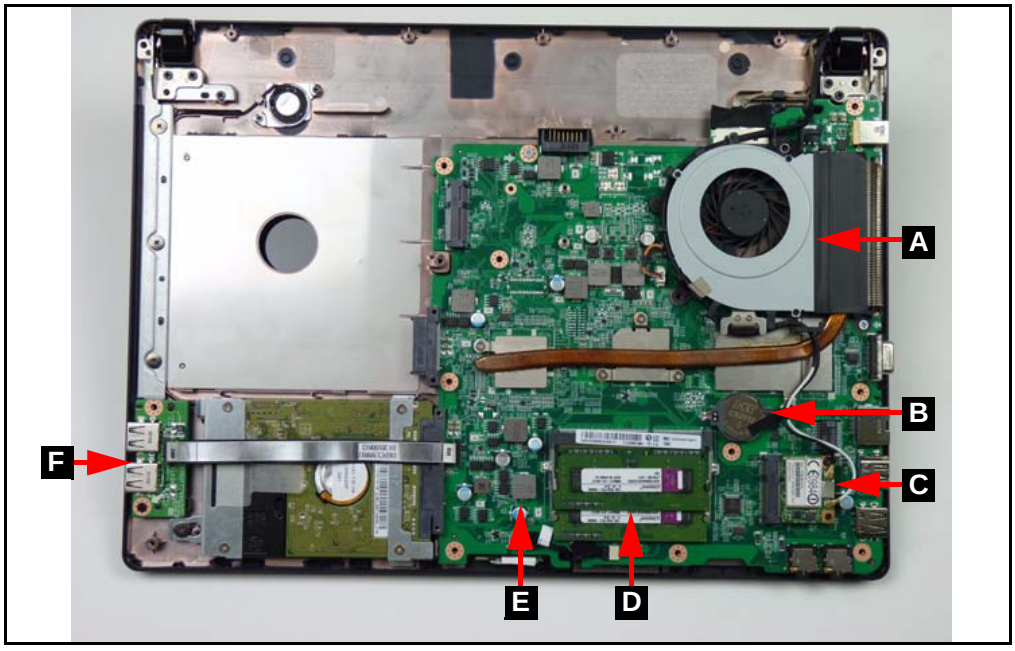

Figure 3-11. Component Location

2. Push DIMM clips (A) outwards (Figure 3-12).

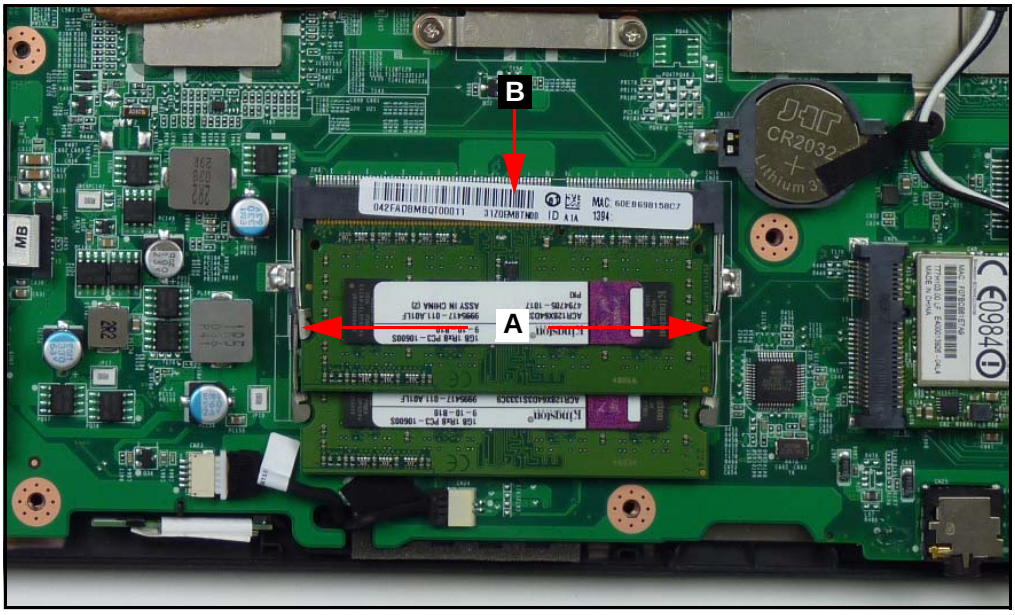

Figure 3-12. DIMM Modules

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3. Disconnect DIMM out of mainboard connector (B). Refer to Figure 3-12.
4. Repeat steps 2 and 3 for remaining modules.

DIMM Module Installation

1. Connect DIMM into mainboard connector (B). Refer to Figure 3-12.
2. Push down on DIMM until module clips (A) lock in position. Refer to Figure 3-12.
3. Repeat steps 2 and 3 for remaining modules.
4. Install lower cover.

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WLAN (Wireless Local Area Network) Module Removal

Prerequisite:

Lower Cover Removal

1. Find WLAN module (C) on lower cover. Refer to Figure 3-11.
2. Disconnect main (A) and auxiliary (B) antenna cables from module (Figure 3-13).

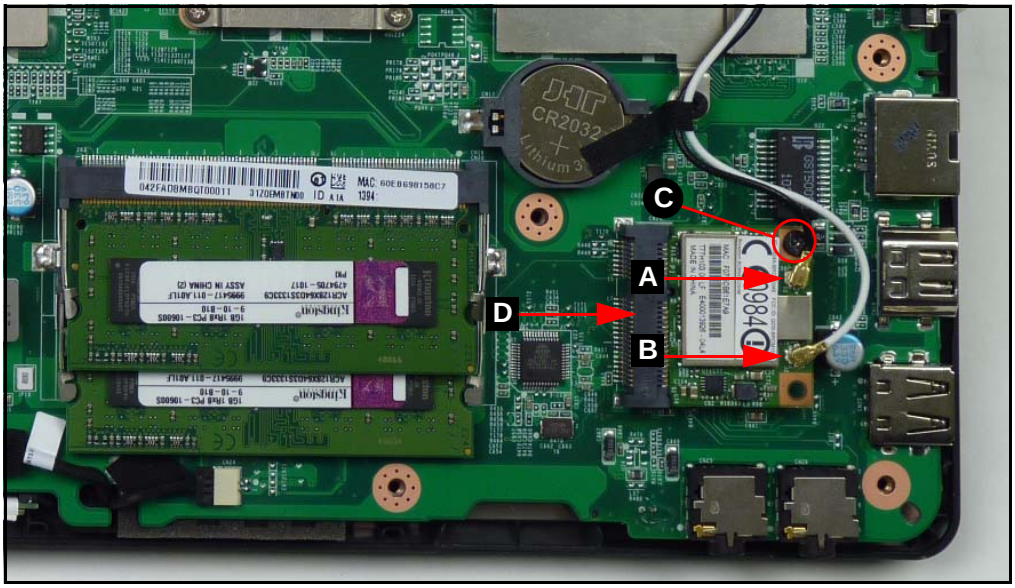

Figure 3-13. WLAN Module

3. Remove antenna cables from cable guides on the thermal module (Figure 3-14).

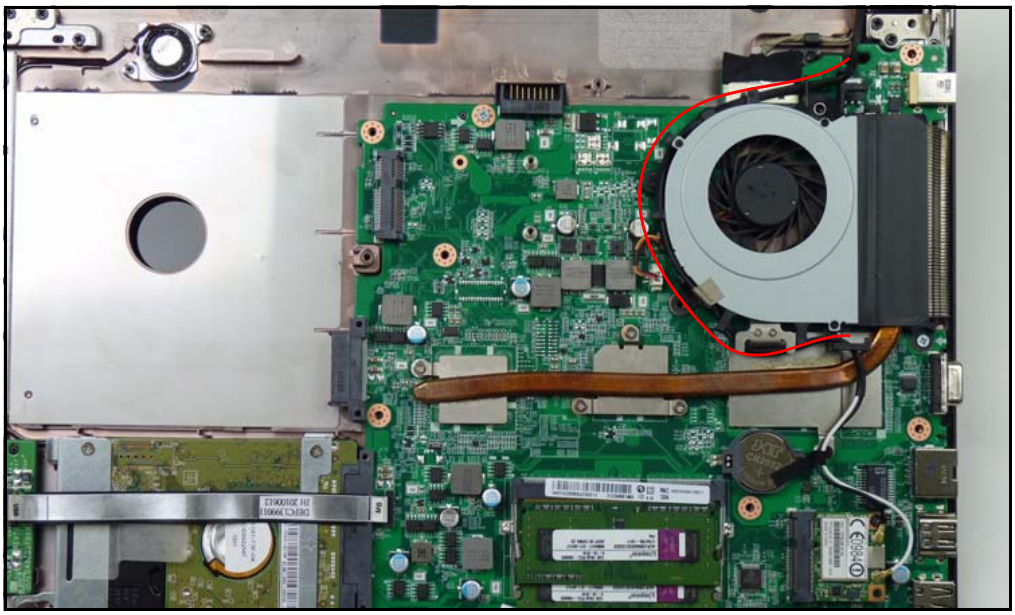

Figure 3-14. WLAN Cable Routing

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4. Remove one (1) screw (C) from mainboard. Refer to Figure 3-13.
5. Remove module from mainboard connector (D). Refer to Figure 3-13.

WLAN Module Installation

1. Put module into mainboard connector (D). Refer to Figure 3-13.
2. Install and secure one (1) screw (C) to mainboard. Refer to Figure 3-13.
3. Put antenna cables into the cable guides on the thermal module. Refer to Figure 3-14.
4. Install main (A) and auxiliary (B) antenna cables on WLAN module. Refer to Figure 3-13.
5. Install lower cover.

ID	Size	Quantity	Screw Type
C	M2.5*4.0	1	

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USB Module Removal

Prerequisite:

Lower Cover Removal

1. Find USB module (F) on lower cover as shown on Figure 3-11.
2. Disconnect USB module FFC (A) from USB module connector (B) (Figure 3-15).
3. Disconnect and remove USB module FFC (A) from mainboard connector (C) (Figure 3-15).

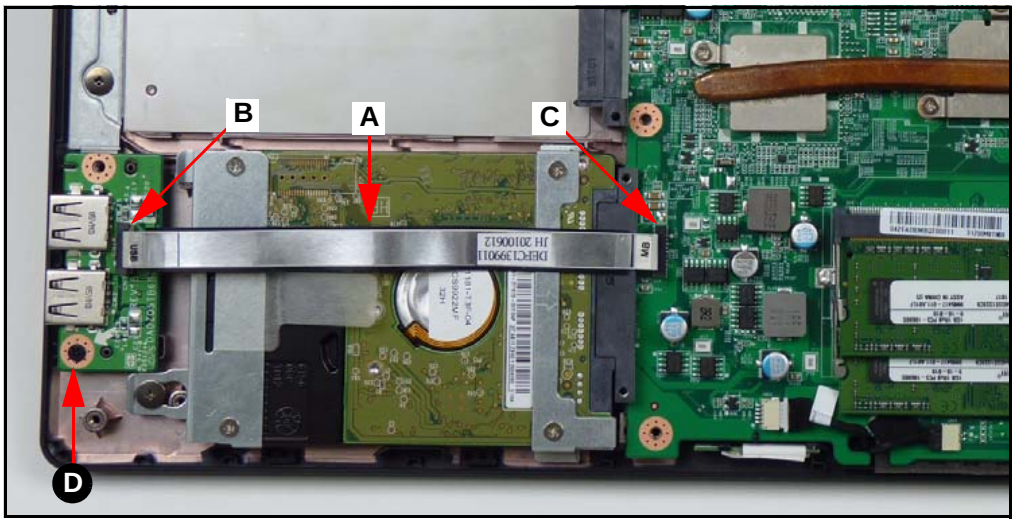

Figure 3-15. USB module

4. Remove screw (D) from lower cover (Figure 3-15).
5. Remove USB module from lower cover.

USB Module Installation

1. Install USB module (F) on lower cover. Refer to Figure 3-11.
2. Install and secure screw (D) to lower cover (Figure 3-15).
3. Connect USB module FFC (A) to module connector (B) (Figure 3-15).
4. Connect USB module FFC (A) to mainboard connector (C) (Figure 3-15).
5. Install lower cover.

ID	Size	Quantity	Screw Type
D	M2.5*3.0	1	

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RTC Battery Removal

Prerequisite:

Lower Cover Removal

1. Find RTC battery (B) on mainboard as shown on Figure 3-11.
2. Using plastic tweezers, push the RTC battery through the gap in the mainboard connector (A) to release the battery (Figure 3-16).

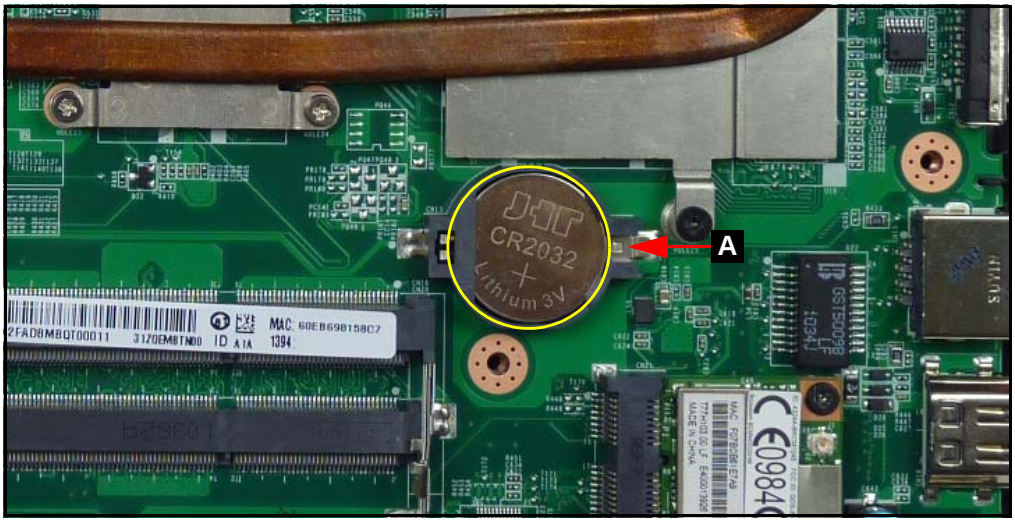

Figure 3-16. RTC Battery

+ **IMPORTANT:**

Follow local regulations for battery (Figure 3-16) disposal.

3. Remove RTC battery from mainboard connector.

RTC Battery Installation

1. Put RTC battery (A) into the mainboard connector and press down to secure it. Refer to Figure 3-16.
2. Install lower cover.

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Bluetooth Module Removal

Prerequisite:

Lower Cover Removal

1. Find Bluetooth module (E) on upper cover. Refer to Figure 3-11.
2. Disconnect Bluetooth cable (C) from mainboard connector (Figure 3-17).
3. Release the Bluetooth board (A) from the board guide (B) (Figure 3-17).

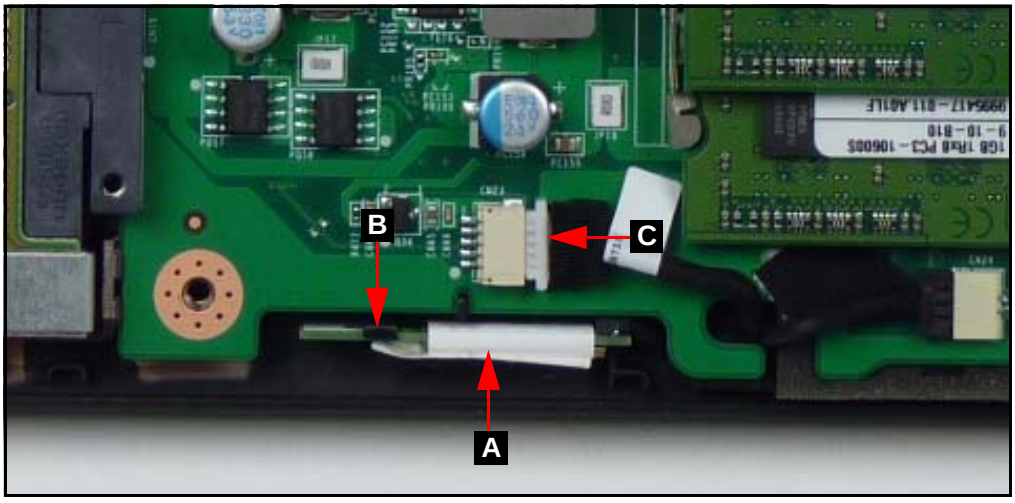

Figure 3-17. Bluetooth Module

4. Lift the Bluetooth module from the upper cover (Figure 3-18).

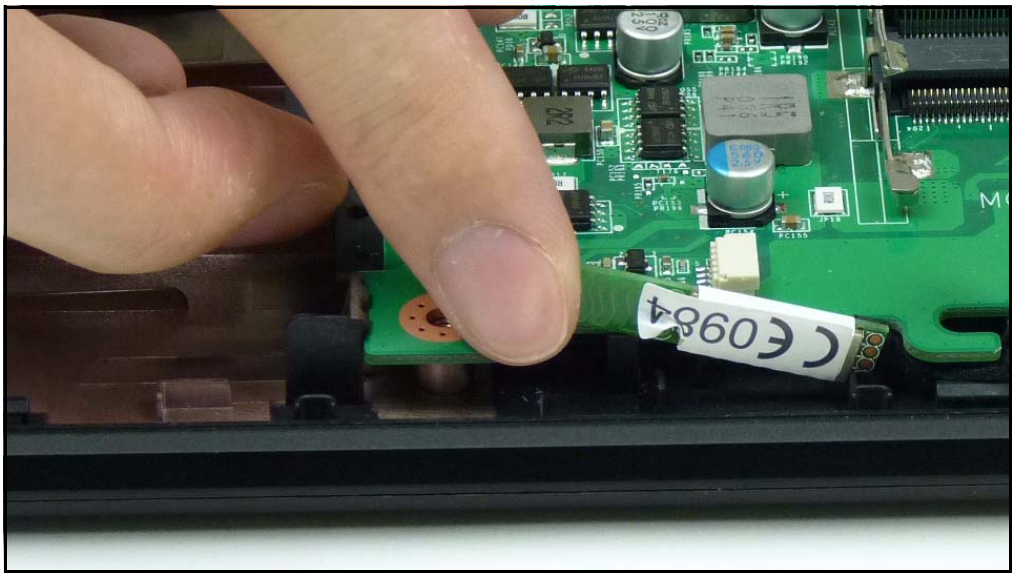

Figure 3-18. Bluetooth Module

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5. Disconnect Bluetooth cable (A) from Bluetooth module connector (B) (Figure 3-19).

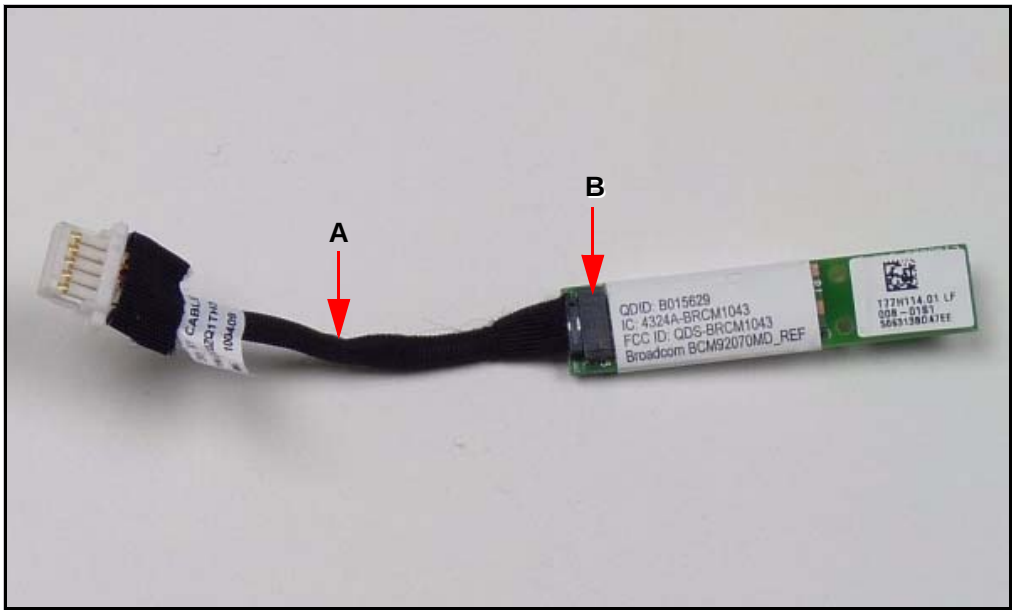

Figure 3-19. Bluetooth Module

Bluetooth Module Installation

1. Connect Bluetooth cable (B) to Bluetooth module (A) (Figure 3-19).
2. Install and secure Bluetooth module (A) to upper cover.
3. Put Bluetooth cable along the opening in the mainboard (Figure 3-18).
4. Connect Bluetooth cable (C) to mainboard connector (Figure 3-18).
5. Install lower cover.

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Thermal Module Removal

Prerequisite:

Lower Cover Removal

1. Find thermal module (A) on mainboard. Refer to Figure 3-11.
2. Remove the WLAN antennas from cable guides. Refer to Figure 3-14.
3. Loosen four (4) captive screws (A). Refer to Figure 3-20.
4. Loosen one (1) captive screw (B) (Figure 3-20).
5. Remove one (1) screw (C) from mainboard (Figure 3-20).

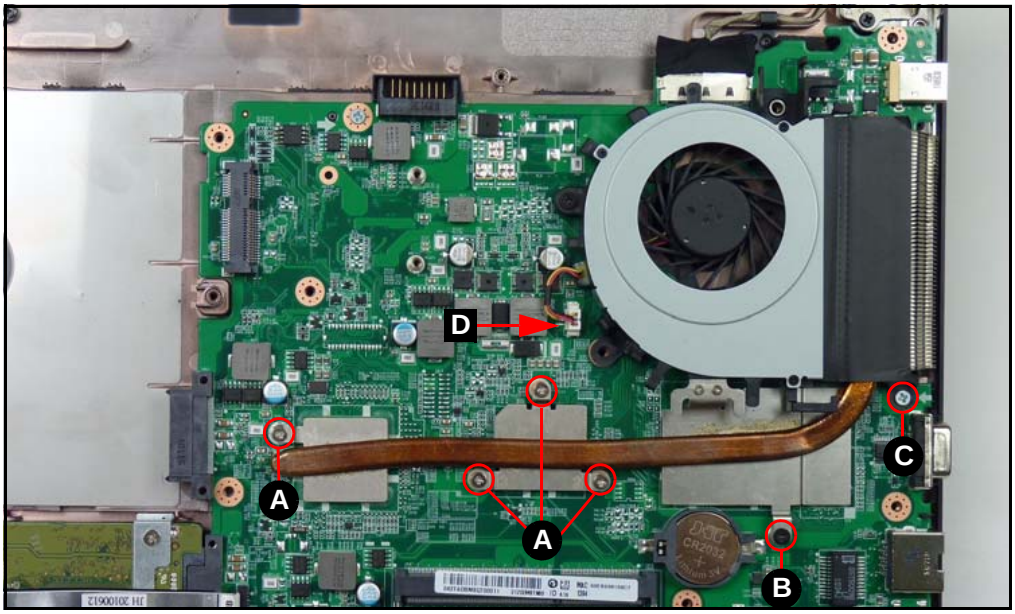

Figure 3-20. Thermal Module

6. Disconnect the thermal module cable from the mainboard connector (D) (Figure 3-20).

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7. Remove thermal module from mainboard as shown in Figure 3-21.

Figure 3-21. Thermal Module

Thermal Module Installation

IMPORTANT:

Apply approved thermal grease and ensure all heat pads are in position before replacing module.

CAUTION:

Use caution when applying thermal grease. Thermal grease may cause damage to the mainboard.

The following thermal grease types are approved for use:

- Silmore GP50
- Honeywell
- Jet Motor 7762

The following thermal pads are approved for use:

- Eapus XR-PE

1. Remove all traces of thermal grease from CPU using a lint-free cloth or cotton swab and Isopropyl Alcohol, Acetone, or other approved cleaning agent.
2. Apply small amount of thermal grease to center of CPU.

NOTE:

Force used during installation of thermal module is sufficient to spread grease evenly over CPU top.

3. Install and secure four (4) non-captive screws (A) in numerical order from one (1) to four (4) to mainboard. Refer to Figure 3-20.
4. Install and secure one (1) non-captive screws (B) to mainboard.
5. Secure one (1) captive screws (C).
6. Connect thermal module cable to mainboard connector (D). Refer to Figure 3-20.
7. Install WLAN cables into cables guides. Refer to Figure 3-14.
8. Install lower cover.

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ID	Size	Quantity	Screw Type
C	M2.5*3.0 Ni	1	

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HDD (Hard Disk Drive) Module Removal

Prerequisite:

USB Module Installation

1. Find HDD module (A) on lower cover (Figure 3-22).

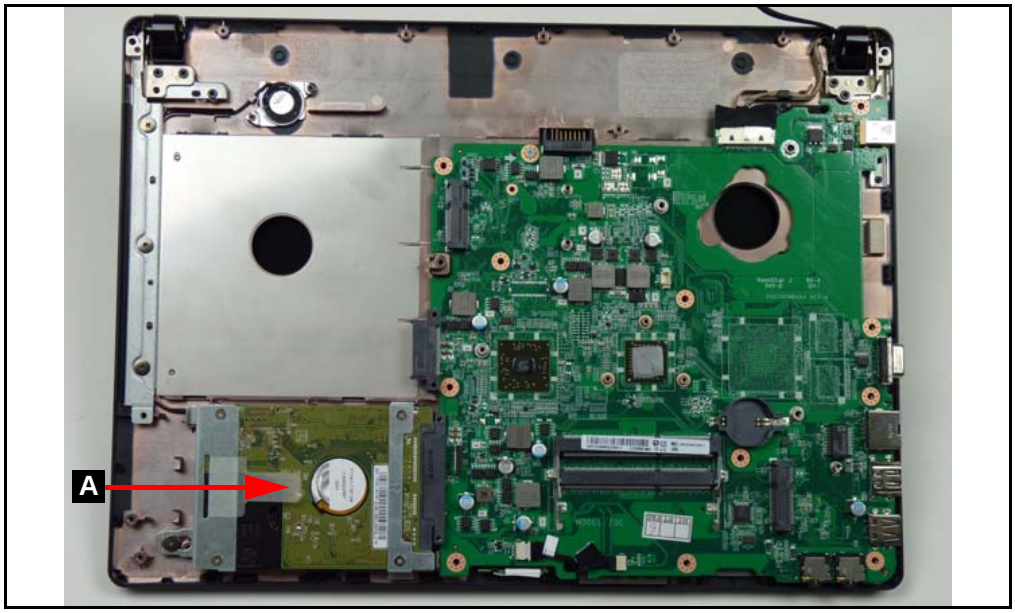

Figure 3-22. HDD Module Location

2. Remove one (1) screw (B) from the upper cover (Figure 3-23).

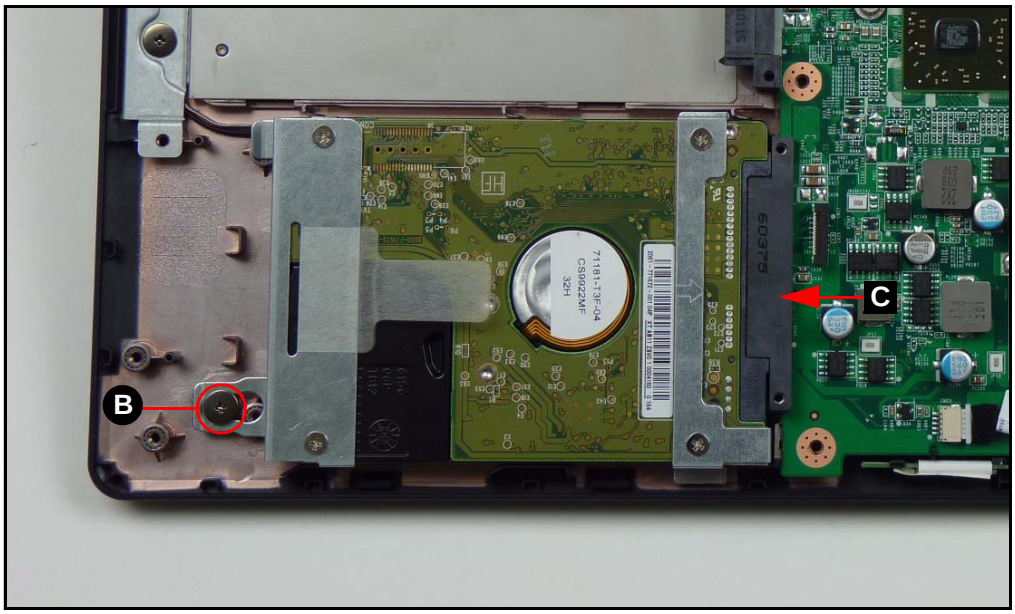

Figure 3-23. HDD Module Screw Location

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3. Remove HDD module from mainboard connector (C). Refer to Figure 3-23.
4. Remove HDD module from upper cover.
5. Remove four (4) screws (D) from HDD bracket (E) (Figure 3-24).

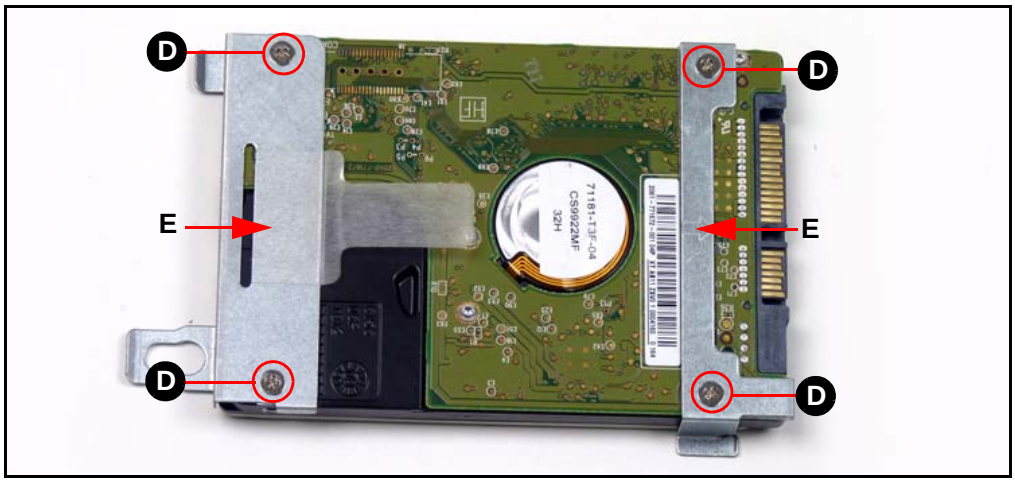

Figure 3-24. HDD Module

6. Remove HDD bracket (B) from HDD module.

HDD Module Installation

1. Put HDD brackets onto HDD module (Figure 3-24).
2. Install four (4) screws (D) and secure HDD brackets (E) to HDD module (Figure 3-24).
3. Put HDD module onto upper cover. Refer to Figure 3-22.
4. Connect HDD module to mainboard connector (C). Refer to Figure 3-23.
5. Install one (1) screw (B) and secure HDD module to upper cover. Refer to Figure 3-23.
6. Install USB board.

ID	Size	Quantity	Screw Type
B	M2.0*2.0	1	
D	M3.0*3.0	4	

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Mainboard Removal

Prerequisite:

Thermal Module Removal

1. Find mainboard (A) on lower cover (Figure 3-25).

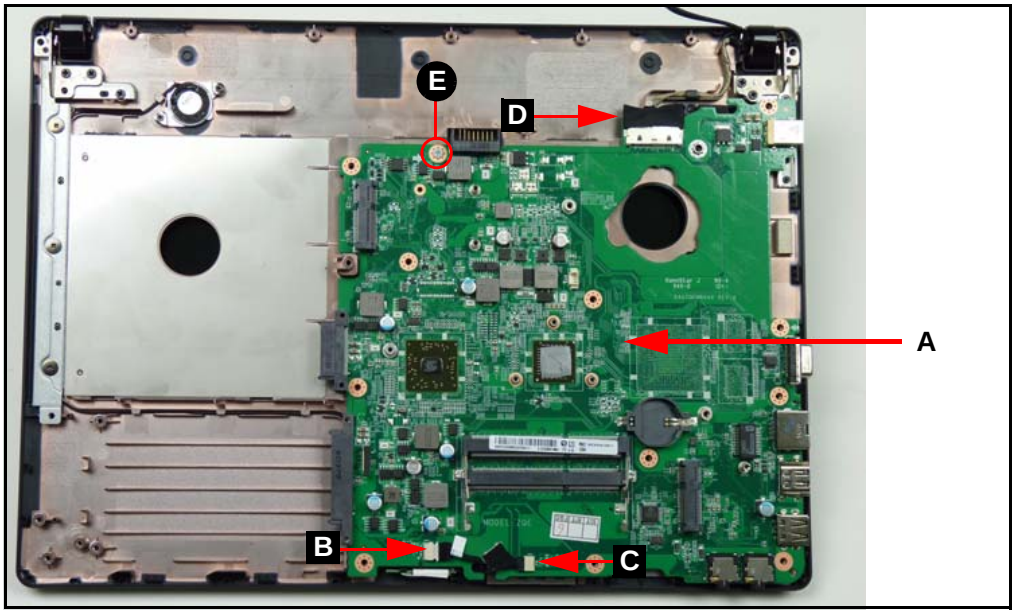

Figure 3-25. Mainboard Location

2. Disconnect speaker cable from mainboard connector (C) (Figure 3-25).
3. Disconnect Bluetooth cable from mainboard connector (B) (Figure 3-25).
4. Disconnect LVDS cable from mainboard connector (D) (Figure 3-25).
5. Remove one (1) screw (E) from the mainboard (Figure 3-25).
6. Remove mainboard by lifting it from upper cover.

⚠ CAUTION:

Make sure all cables are moved away from the device to avoid damage during removal.

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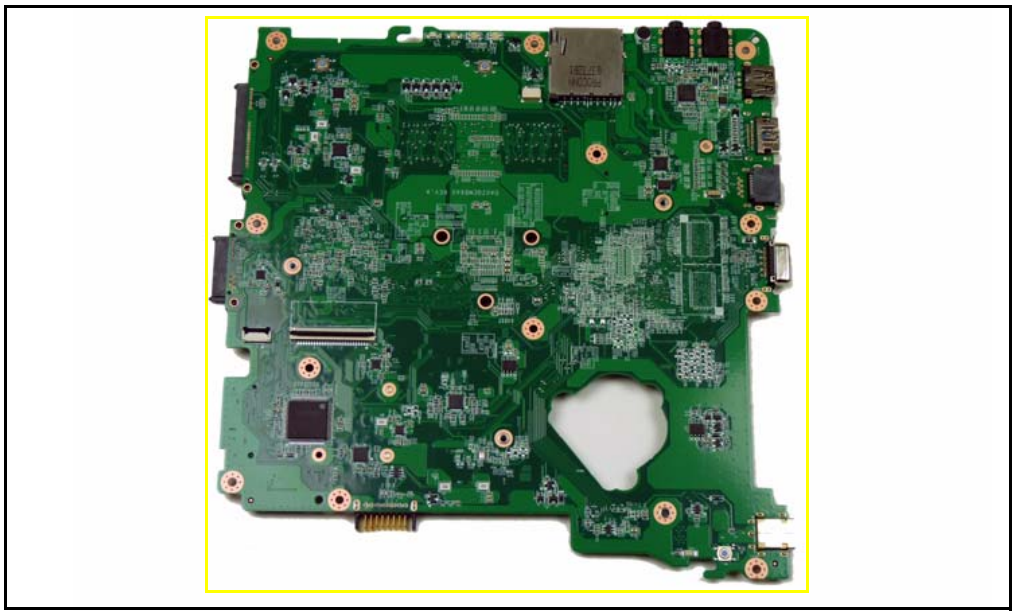

Figure 3-26. Mainboard

+ **IMPORTANT:**

Circuit boards >10 cm² have been highlighted with a yellow rectangle as shown in Figure 3-26. Remove the Circuit board and follow local regulations for disposal.

Mainboard Installation

1. Put mainboard onto upper cover (Figure 3-25).
2. Install and secure one (1) screw (E) to mainboard (Figure 3-25).
3. Connect LVDS cable (D) to mainboard connector (Figure 3-25).
4. Connect Bluetooth cable (B) to mainboard connector (Figure 3-25).
5. Connect speaker cable (C) to mainboard connector (Figure 3-25).
6. Install thermal module.

ID	Size	Quantity	Screw Type
E	M2.5*3.0 Ni	1	

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LCD (Liquid Crystal Display) Module Removal

Prerequisite:

Mainboard Removal

1. Remove four (4) screws (A) from LCD hinges (Figure 3-27).

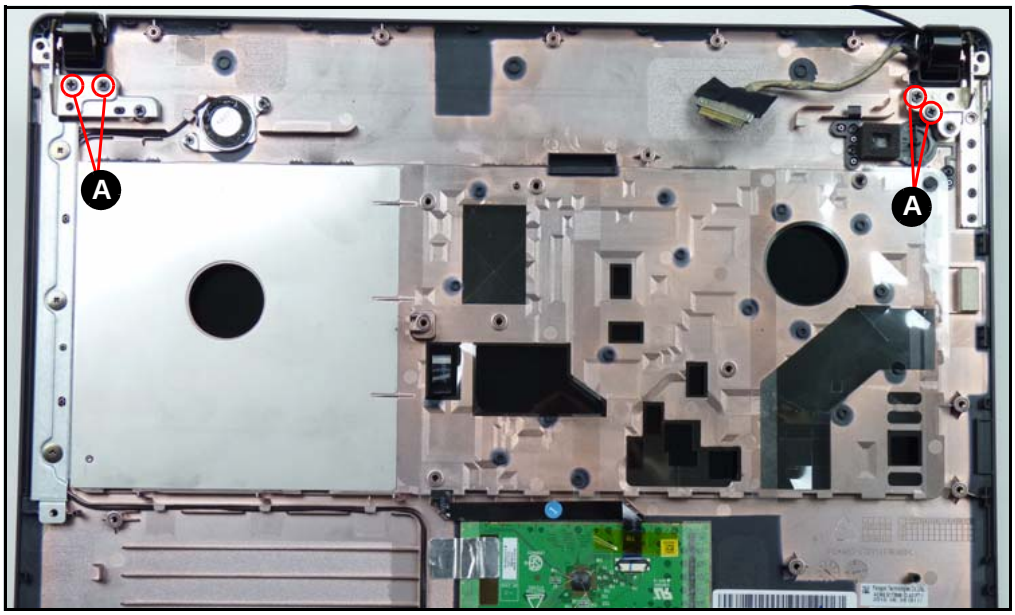

Figure 3-27. LCD Hinge Screws

2. Remove the upper cover from the LCD module (Figure 3-28).

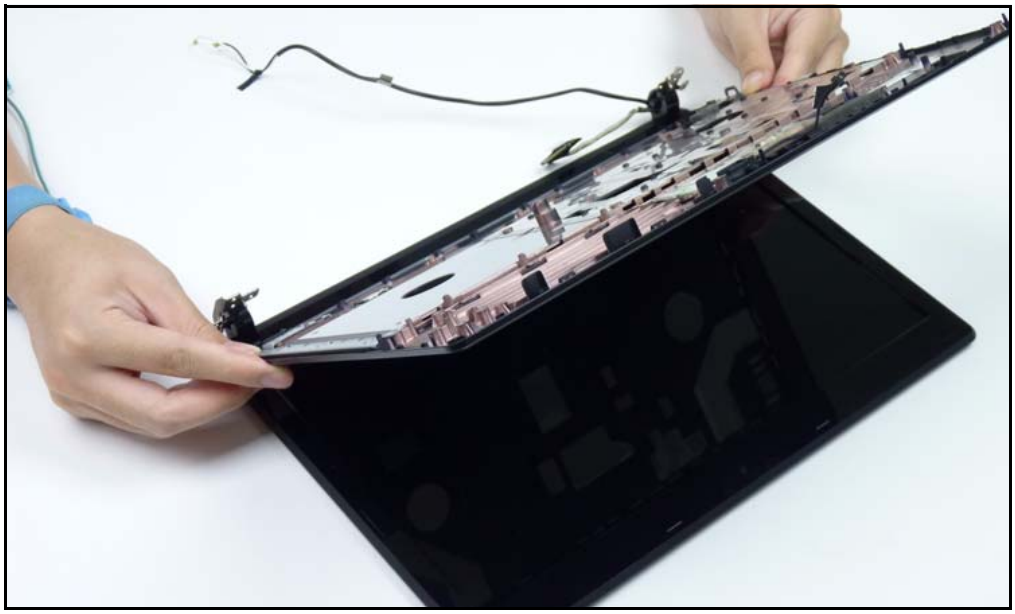

Figure 3-28. LCD Module

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⚠ CAUTION:

Make sure all cables are moved away from the device to avoid damage during removal.

LCD Module Installation

1. Align LCD hinges with the hinge guides on the upper cover.
2. Install and secure four (4) screws (A). Refer to Figure 3-27.
3. Install mainboard.

ID	Size	Quantity	Screw Type
A	M2.5*4.0	4	

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Speaker Removal

Prerequisite:

Mainboard Removal

1. Find speaker (A) on upper cover as shown on Figure 3-29.
2. Remove four (4) screws (B,C) from the speaker cable bracket (Figure 3-29).
3. Remove speaker bracket (D) from upper cover (Figure 3-29).

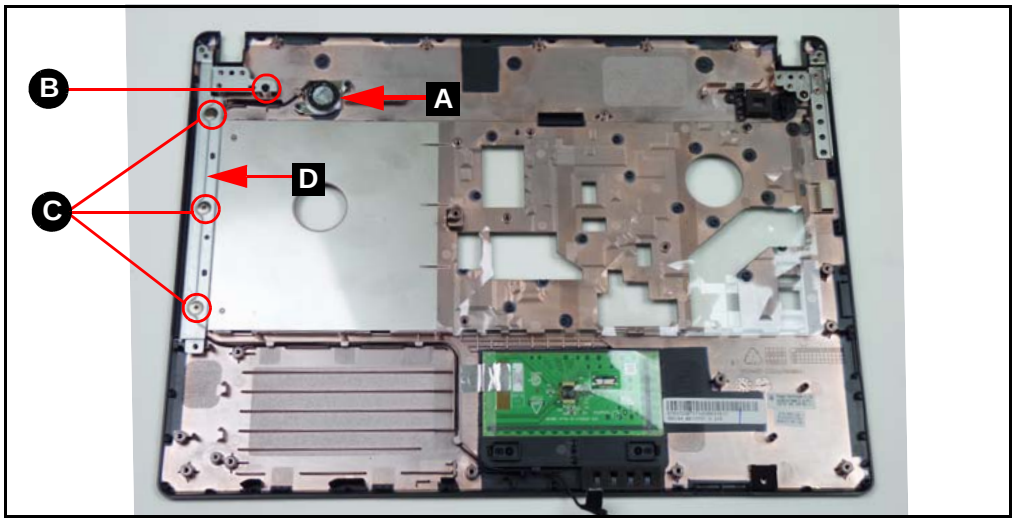

Figure 3-29. Speaker

4. Loosen two (2) captive screws (E) from speaker (Figure 3-30).

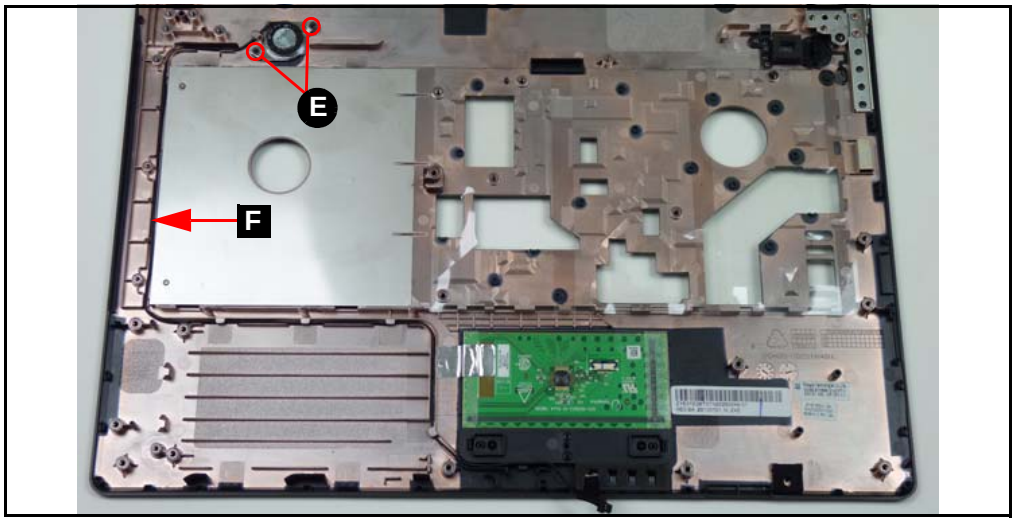

Figure 3-30. Speaker

5. Remove speaker cable (F) from cable guides (Figure 3-30).

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Speaker Installation

1. Put speaker cable (F) into cable guides (Figure 3-30).
2. Put speaker into the upper cover (Figure 3-30).
3. Secure speaker with two (2) captive screws (E) (Figure 3-30).
4. Install speaker bracket (D) onto upper cover. Refer to Figure 3-29.
5. Install and secure four (4) screws to speaker bracket. Refer to Figure 3-29.
6. Connect module FFC (A) to mainboard connector (C). Refer to Figure 3-29.
7. Install mainboard.

ID	Size	Quantity	Screw Type
C	M2.0*2.0	3	
E	M2.5*4.0	1	

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LCD Bezel Removal

Prerequisite:

LCD (Liquid Crystal Display) Module Removal

1. Remove two (2) screws (A) from the LCD module (Figure 3-31).

Figure 3-31. LCD Bezel

2. Lift the bottom of the bezel up releasing it from the latches (Figure 3-32).

Figure 3-32. LCD Bezel

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3. Continue along the sides of the bezel until all the latches have been released (Figure 3-33).

Figure 3-33. LCD Bezel

4. Lift the bezel from LCD module.

LCD Bezel Installation

1. Put LCD bezel on the LCD module. Refer to Figure 3-31.
2. Press along the edges of the LCD bezel to secure the latches on the LCD module.
3. Install and secure two (2) screws (A) to the LCD bezel. Refer to Figure 3-31.
4. Install LCD module.

ID	Size	Quantity	Screw Type
A	M2.5*4.0	2	

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Camera Module Removal

Prerequisite:

LCD Bezel Removal

1. Find the camera module (A) in the LCD module (Figure 3-34).

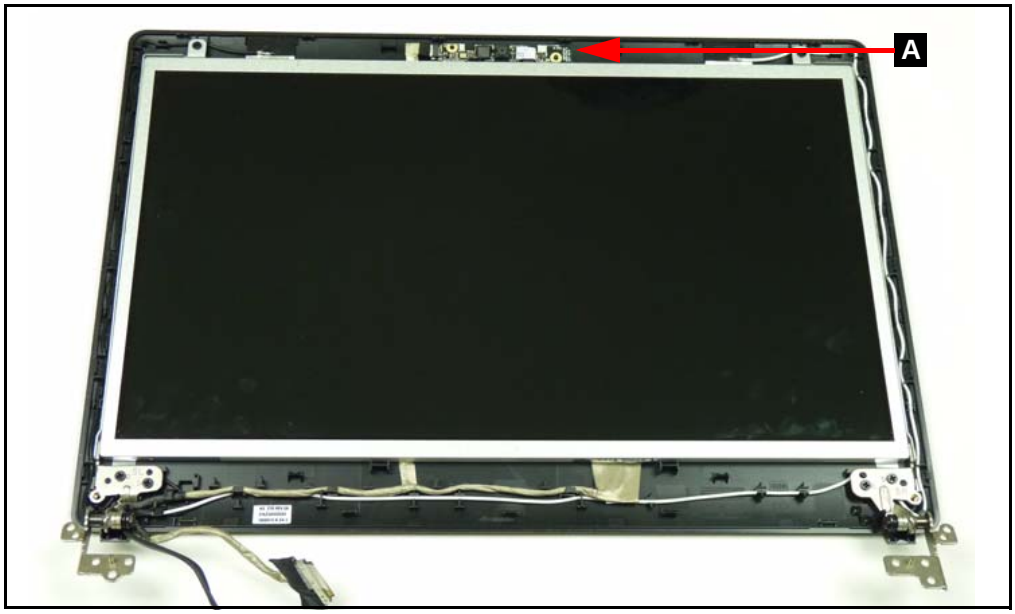

Figure 3-34. Camera Module Location

2. Disconnect the camera cable (A) from connector (B) (Figure 3-35).

NOTE:

Use care not to damage the cable.

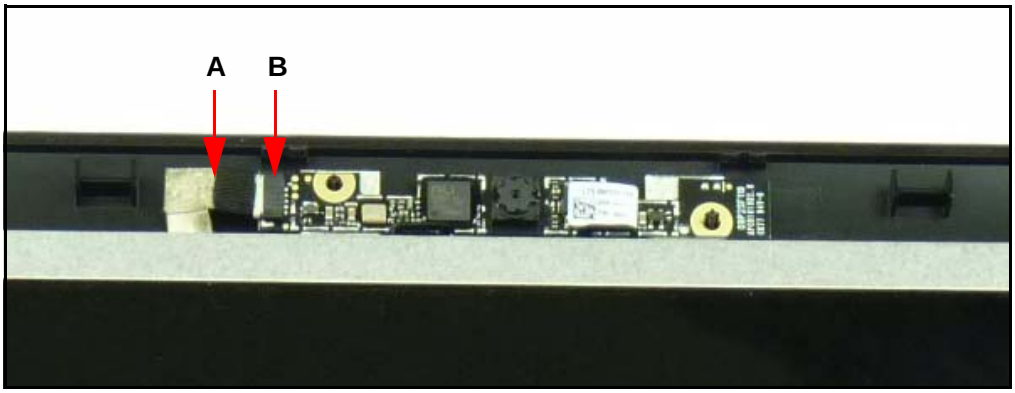

Figure 3-35. Camera Cable

3. Lift the camera module from the LCD cover.

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Camera Module Installation

1. Put camera module on the LCD module. Refer to Figure 3-34.
2. Connect the camera cable (A) to connector (B). Refer to Figure 3-35.
3. Install LCD bezel.

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LCD Panel Removal

Prerequisite:

LCD Bezel Removal

1. Remove the six (6) screws (A) from the LCD panel (Figure 3-36).

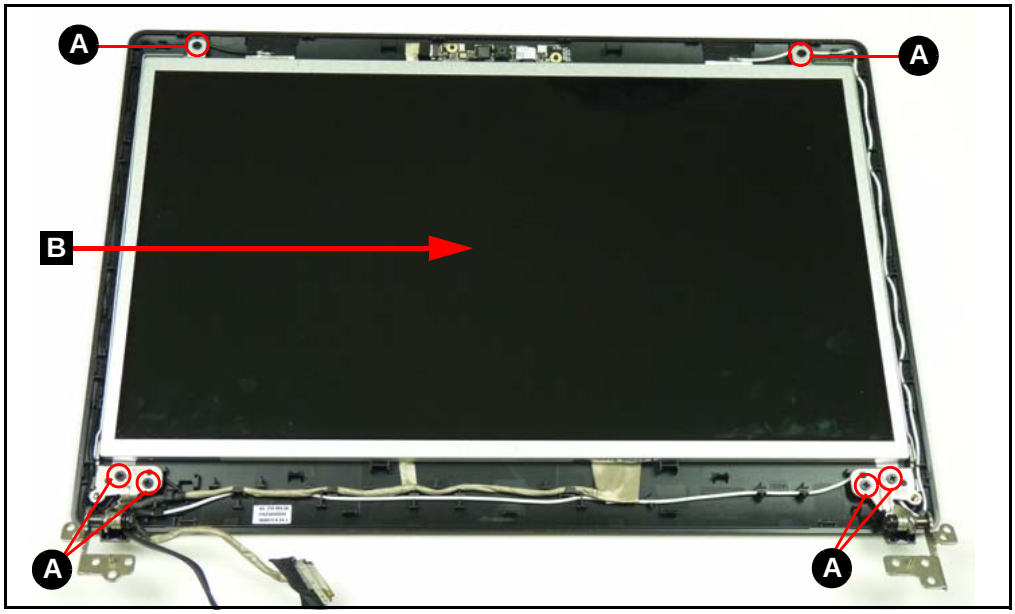

Figure 3-36. LCD Panel

2. Remove the LVDS cable (C) from the cable guides (Figure 3-37).

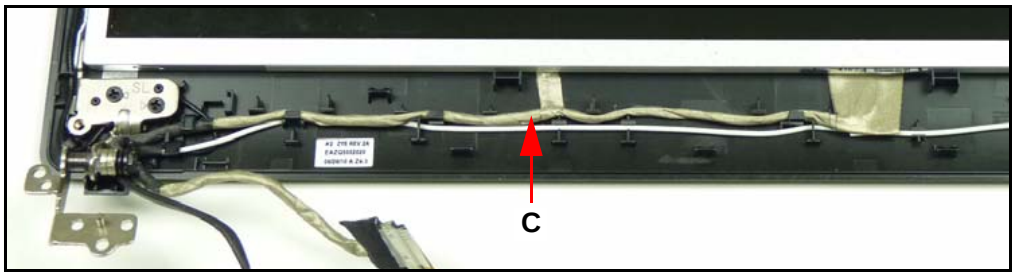

Figure 3-37. LVDS Cable

3. Lift the LCD panel (B) from LCD cover (Figure 3-36).

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LCD Panel Installation

1. Put LCD panel on the LCD cover. Refer to Figure 3-36.
2. Put LVDS cable (C) in the cable guides. Refer to Figure 3-37.
3. Install and secure six (6) screws (A) to the LCD panel. Refer to Figure 3-36.
4. Install LCD bezel.

ID	Size	Quantity	Screw Type
A	M2.5*4.0	6	

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LCD Bracket Removal

Prerequisite:

LCD Panel Removal

1. Remove the four (4) screws (A) (Figure 3-38).

Figure 3-38. LCD Bracket

2. Remove LCD bracket from the LCD panel.

LCD Bracket Installation

1. Put LCD bracket on the LCD panel (Figure 3-38).
2. Install and secure four (4) screws (A) to the LCD bracket (Figure 3-38).
3. Install LCD panel.

ID	Size	Quantity	Screw Type
A	M2.0*3.0	4	

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LVDS Cable Removal

Prerequisite:

LCD Panel Removal

1. Remove LVDS cable (A) from the adhesive on the rear of the LCD panel (Figure 3-39).

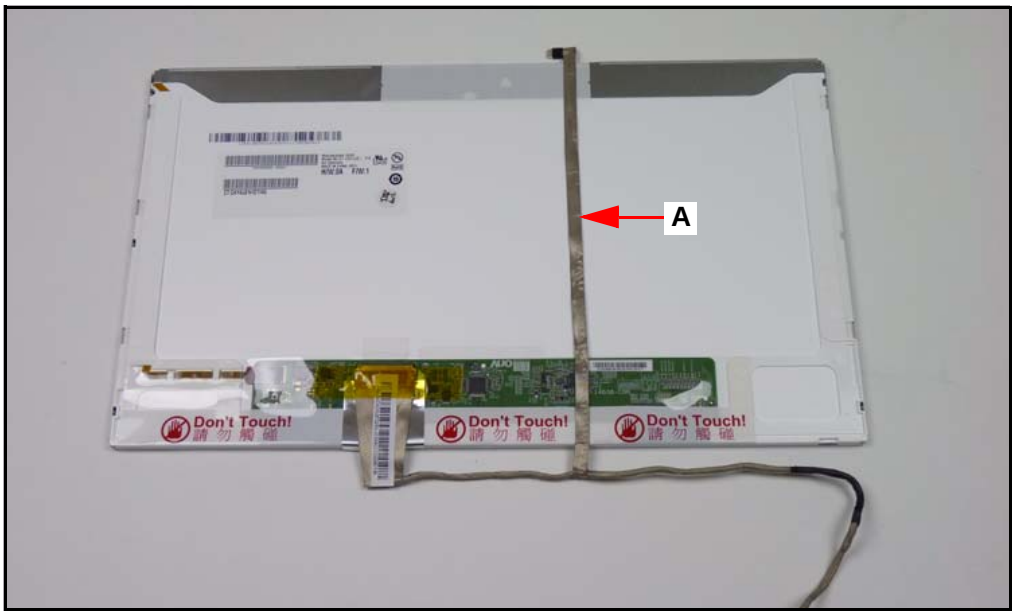

Figure 3-39. LVDS Cable

2. Remove the yellow tape (B) securing the LVDS cable to the LCD panel connector (Figure 3-40).

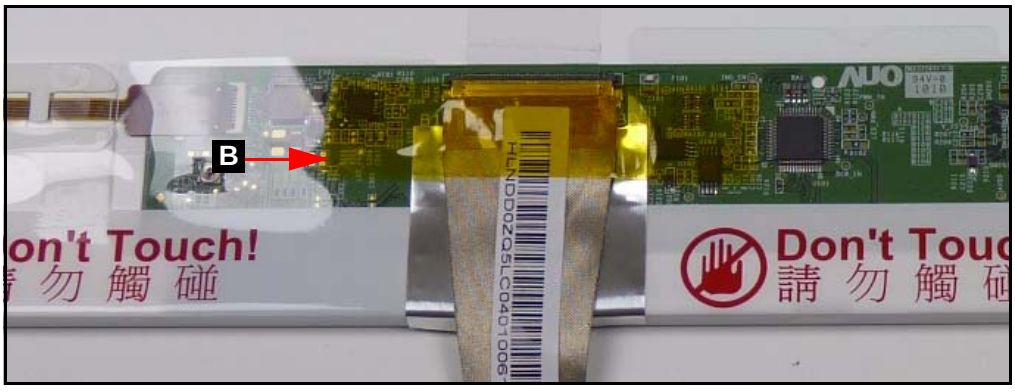

Figure 3-40. LVDS Cable

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3. Starting from the top, remove the clear mylar tape (C) and disconnect the LVDS cable from the LCD panel connector (D) (Figure 3-41).

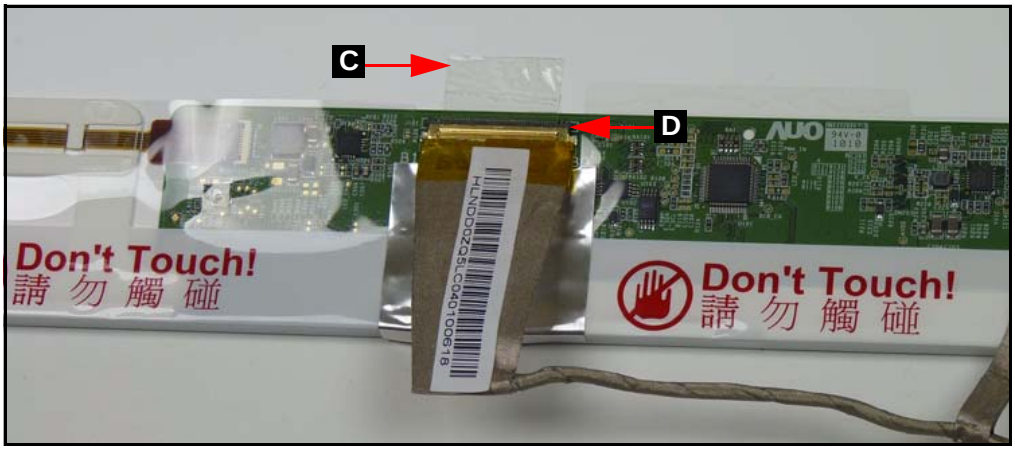

Figure 3-41. LVDS Cable

LVDS Cable Installation

1. Put LVDS cable into the LCD panel connector (D) and secure clear mylar tape (Figure 3-41).
2. Put yellow tape (C) on the LVDS cable to secure it. Refer to Figure 3-40.
3. Put LVDS cable (A) on the rear of the LCD panel. Refer to Figure 3-39.
4. Install LCD panel.

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WLAN Antenna Removal

Prerequisite:

LCD Panel Removal

1. Remove black (A) and white (B) WLAN antennas.

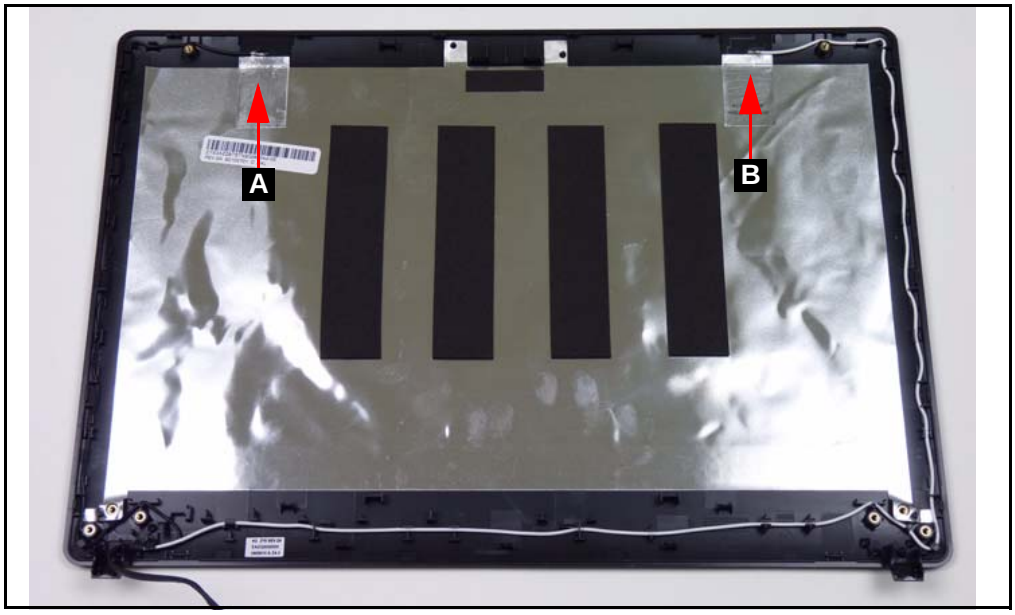

Figure 3-42. WLAN Antenna

2. Remove antenna cables from cable guides.

WLAN Antenna Installation

1. Put antenna cables into cable guides. Refer to Figure 3-42.
2. Put black (A) and white (B) antennas onto LCD cover. Refer to Figure 3-42.
3. Install LCD panel.

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CHAPTER 4
Troubleshooting

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Introduction 4-3
General Information 4-3
Power On Issues 4-4
No Display Issues. 4-5
LCD Failure 4-7
Keyboard Failure 4-8
Touchpad Failure 4-9
Internal Speaker Failure. 4-10
Microphone Failure 4-12
USB Failure 4-13
Other Functions Failure 4-14
Intermittent Problems 4-15
Undetermined Problems 4-15
Post Codes 4-16

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Troubleshooting

Introduction

This chapter contains information about troubleshooting common problems associated with the notebook.

General Information

The following procedures are a guide for troubleshooting computer problems. The step by step procedures are designed to be performed as described.

NOTE:
The diagnostic tests are intended for Acer products only. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain as much detailed information as possible about the problem.
2. If possible, verify the symptoms by re-creating the failure through diagnostic tests or repeating the operation that led to the problem.
3. Use Table 4-1 with the verified symptom to determine the solution.

Table 4-1. Common Problems

Symptoms (Verified)
Power On Issues
No Display Issues
LCD Failure
Keyboard Failure
Touchpad Failure
Internal Speaker Failure
Microphone Failure
USB Failure
Other Functions Failure
Intermittent Problems
Undetermined Problems

4. If the Issue is still not resolved, refer to *Online Support Information*.

NOTE:
Do not replace non-defective FRU parts.

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Power On Issues

If the system does not power on, perform the following:

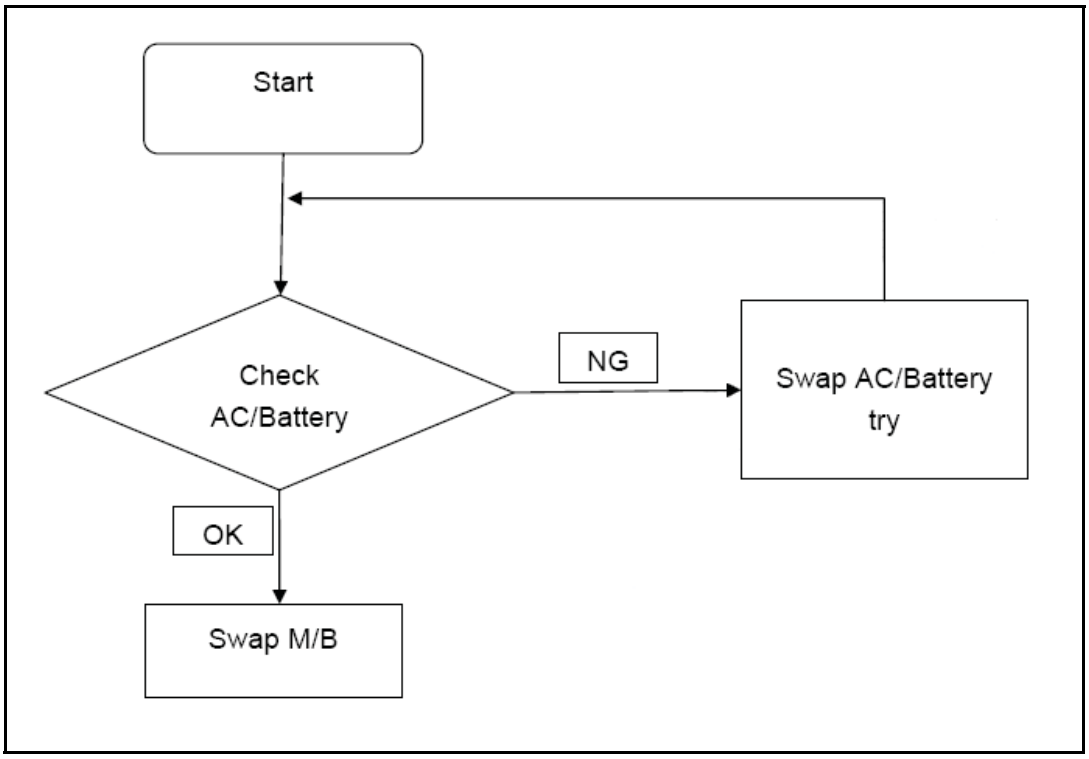

Figure 4-1. Power On Issue

Computer Shuts Down Intermittently

If the system powers off at intervals, perform the following.

1. Makes sure the power cable is properly connected to the computer and the electrical outlet.
2. Remove all extension cables between the computer and the outlet.
3. Remove all surge protectors between the computer and the electrical outlet. Plug the computer directly into a known serviceable electrical outlet.
4. Disconnect the power and open the casing to check the thermal unit and fan airways are free of obstructions.
5. Remove all external and non-essential hardware connected to the computer that are not necessary to boot the computer to the failure point.
6. Remove any recently installed software.
7. If the Issue is still not resolved, refer to *Online Support Information*.

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No Display Issues

If the Display does not work, perform the following:

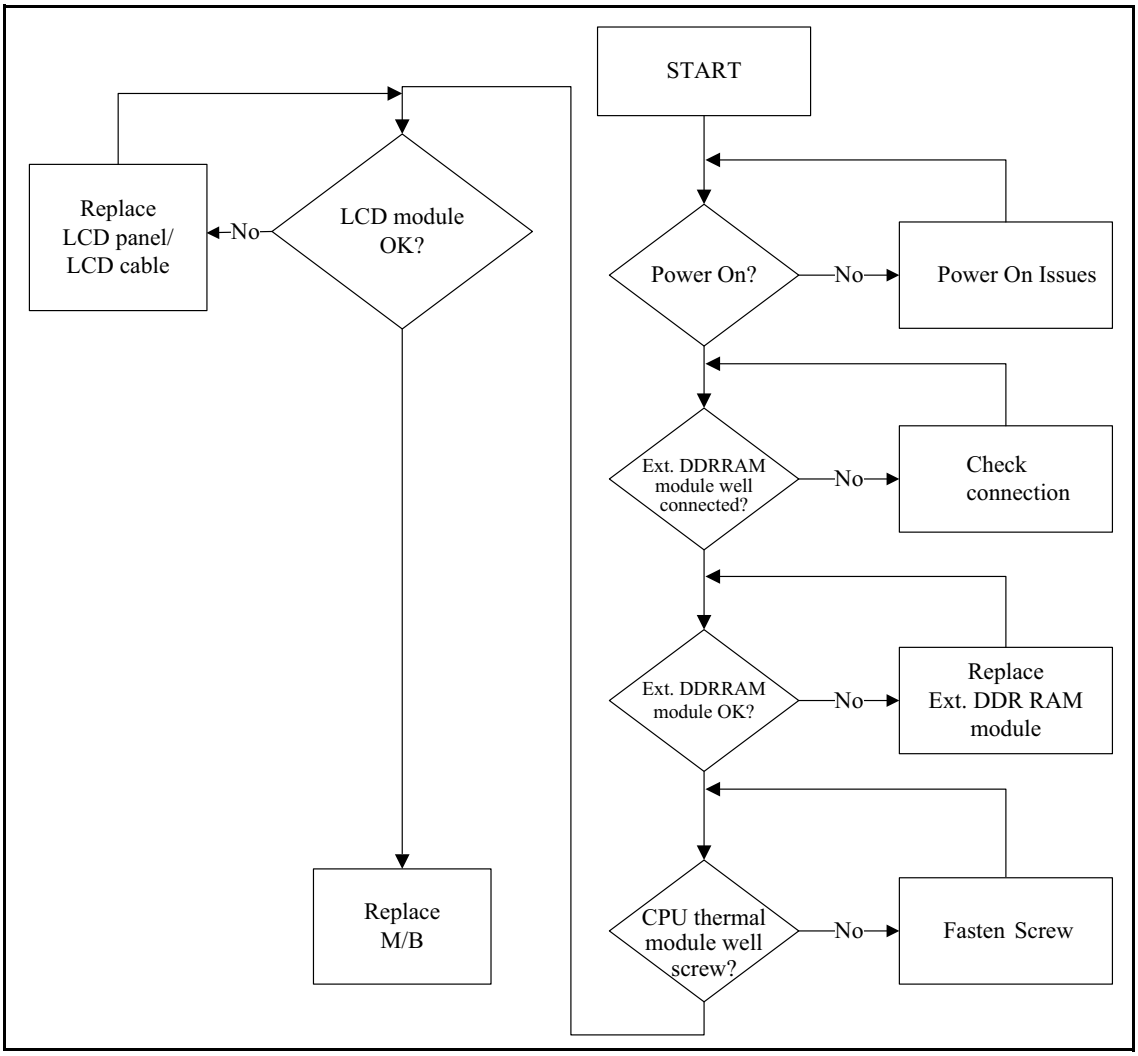

Figure 4-2. No Display Issue

No POST or Video

If the POST or video does not appear, perform the following:

1. Make sure that internal display is selected. Switching between internal and external by pressing ***Fn+F5***. Reference product pages for specific model procedures.
2. Make sure the computer has power by checking for one of the following:
   - Fans start up
   - Status LEDs illuminate

If no power, refer to *Power On Issues*.

3. Drain stored power by removing the power cable and battery. Hold the power button for 10 seconds.

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4. Connect the power and reboot the computer.
5. Connect an external monitor to the computer and switch between the internal display and the external display is by pressing ***Fn+F5***.
6. If the POST or video appears on the external display only, refer to *LCD Failure*.
7. Disconnect power and all external devices including port replicators or docking stations. Remove any memory cards and CD/DVD discs.
8. Start the computer. If the computer boots correctly, add the devices one by one until the failure point is discovered.
9. Reseat the memory modules.
10. Remove the drives (refer to *Maintenance Flowchart*).
11. If the Issue is still not resolved, refer to *Online Support Information*.

Abnormal Video

If the video appears abnormal, perform the following:

1. Boot the computer.
   - If permanent vertical/horizontal lines or dark spots appear in the same location, the LCD is faulty and should be replaced. Refer to Disassembly Process.
   - If extensive pixel damage is present (different colored spots in the same locations on the screen), the LCD is faulty and should be replaced. Refer to *Maintenance Flowchart*.

NOTE:
Make sure that the computer is not running on battery alone as this may reduce display brightness.

2. Adjust the brightness to its highest level. Refer to the User Manual for instructions on adjusting the settings. If the display is too dim at the highest brightness setting, the LCD is faulty and should be replaced. Refer to *Disassembly Process*.
3. Check the display resolution is correctly configured:
   - Minimize or close all Windows.
   - If display size is only abnormal in an application, check the view settings and control/mouse wheel zoom feature in the application.
   - If desktop display resolution is not normal, right-click on the desktop and select `Personalize Display Settings`.
   - Click and drag the Resolution slider to the desired resolution.
   - Click ***Apply*** and check the display. Readjust if necessary.
4. Roll back the video driver to the previous version if updated.
5. Remove and reinstall the video driver.
6. Check the Device Manager to determine that:
   - The device is properly installed. There are no red Xs or yellow exclamation marks
   - There are no device conflicts
   - No hardware is listed under `Other Devices`
7. If the Issue is still not resolved, refer to *Online Support Information*.
8. Run the *Windows Memory Diagnostic* from the operating system DVD and follow the on-screen prompts.
9. If the issue is still not resolved, refer to *Online Support Information*.

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LCD Failure

If the LCD fails, perform the following:

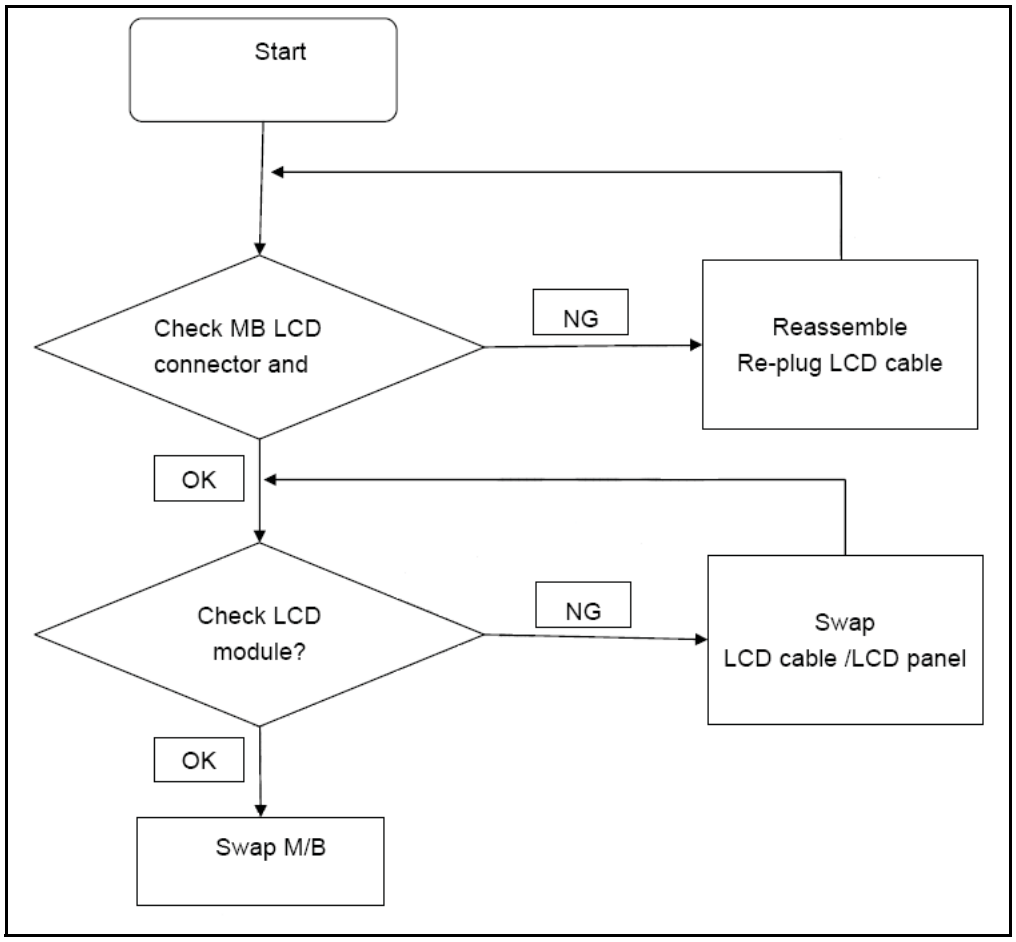

Figure 4-3. LCD Failure

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Keyboard Failure

If the Keyboard fails, perform the following:

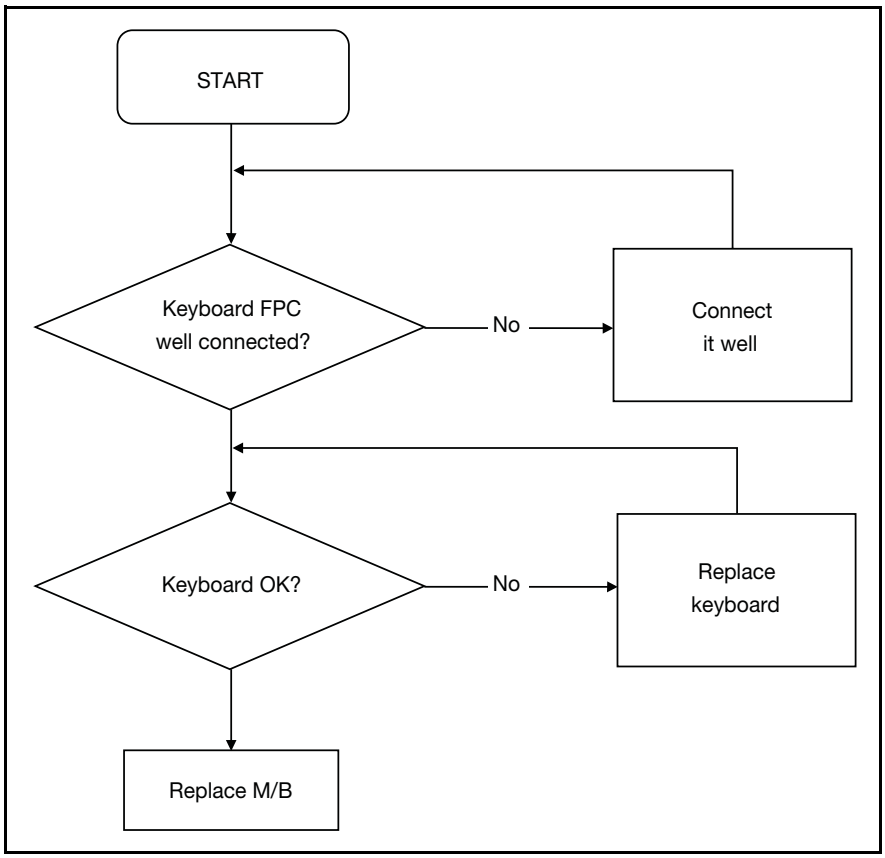

Figure 4-4. Keyboard Failure

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Touchpad Failure

If the Touchpad fails, perform the following:

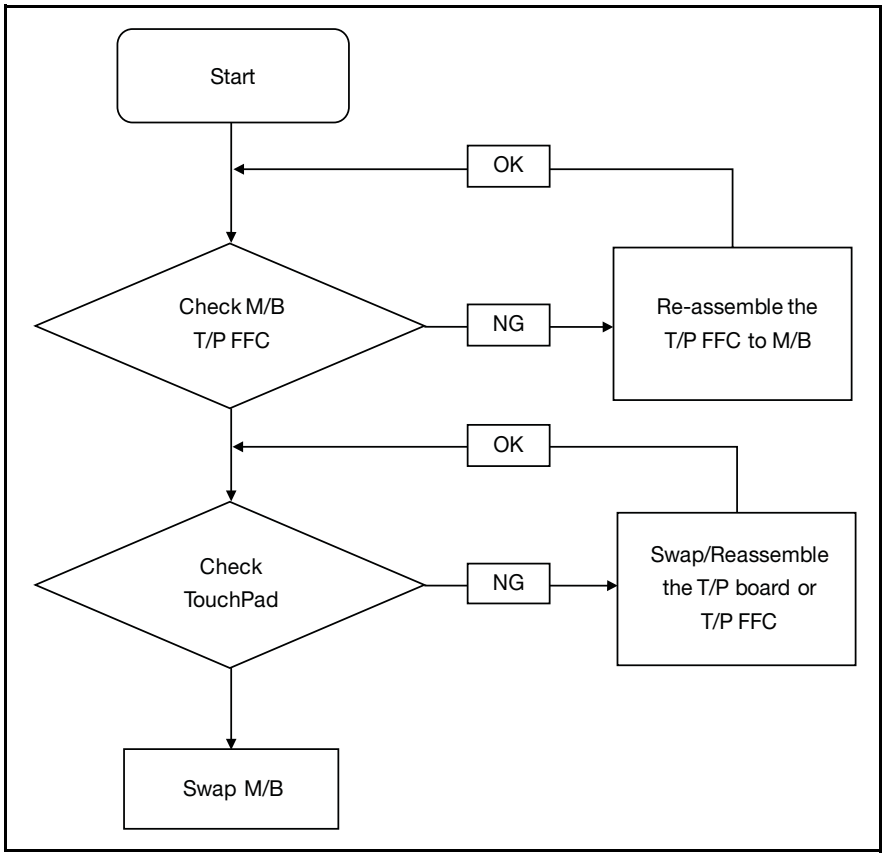

Figure 4-5. Touchpad Failure

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Internal Speaker Failure

If internal Speakers fail, perform the following:

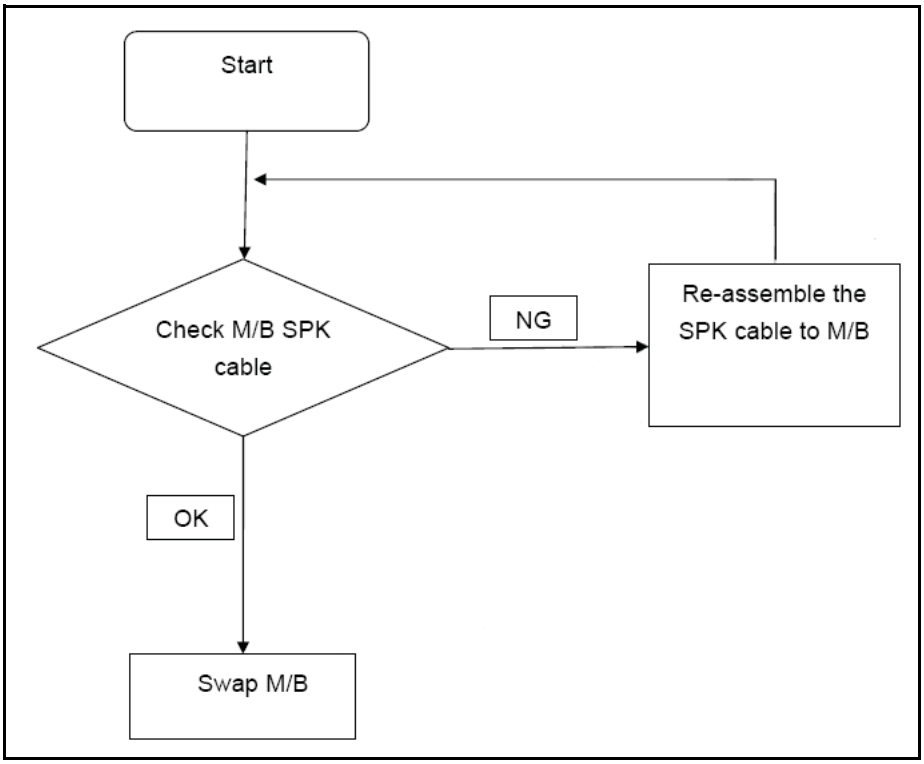

Figure 4-6. Internal Speaker Failure

Sound Problems

Perform the following, one at a time.

1. Boot the computer.
2. Navigate to ***Start → Control Panel → System and Maintenance → System → Device Manager***. Check the Device Manager to determine that:
   - The device is properly installed
   - There are no red Xs or yellow exclamation marks
   - There are no device conflicts
   - No hardware is listed under Other Devices
3. If updated recently, roll back the audio driver to the previous version.
4. Remove and reinstall the audio driver.
5. Make sure that all volume controls are set mid range:
   - Click the volume icon on the taskbar
   - Drag the slider to 50. Confirm that the volume is not muted.
   - Click Mixer to verify that other audio applications are set to 50 and not muted.
6. Navigate to ***Start → Control Panel → Hardware and Sound → Sound***. Confirm that Speakers are selected as the default audio device (green check mark).

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NOTE:

If Speakers does not show, right-click on the `Playback` tab and select **`Show Disabled Devices`** (clear by default).

7. Select Speakers and click ***Configure*** to start `Speaker Setup`. Follow the on-screen prompts to configure the speakers.
8. Remove any recently installed hardware or software.
9. Restore system and file settings from a known good date using `System Restore`.
10. If the issue is remains, repeat step 9, selecting an earlier time and date.
11. Reinstall the operating system.
12. If the issue is still not resolved, refer to *Online Support Information*.

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Microphone Failure

If internal or external Microphones fail, perform the following:

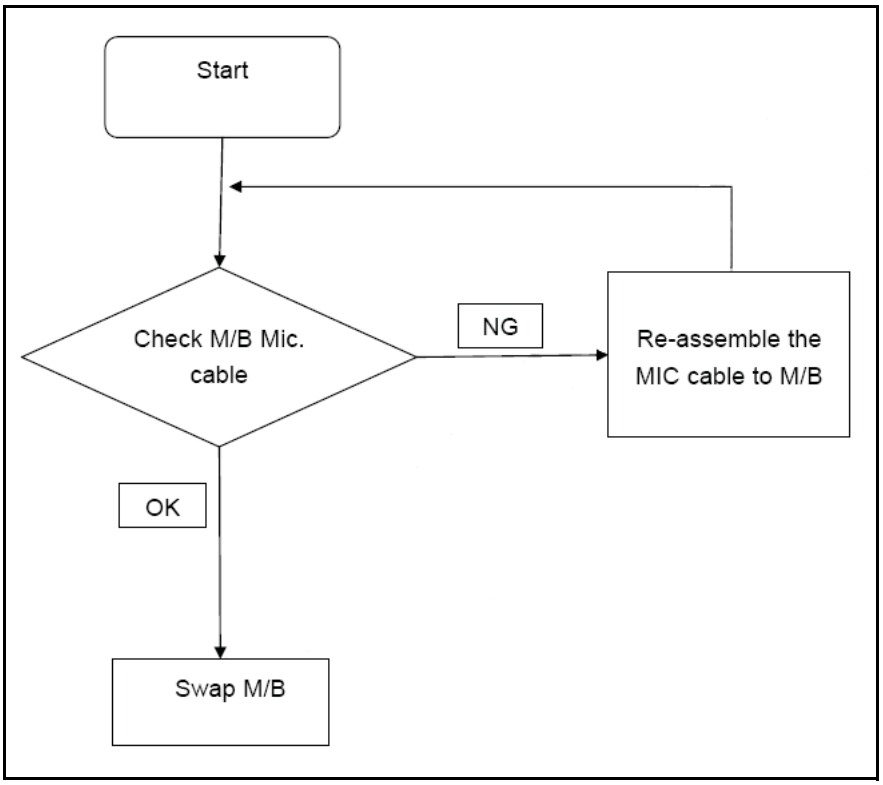

Figure 4-7. Microphone Failure

1. Check that the microphone is enabled. Navigate to ***Start*** → ***Control Panel*** → ***Hardware and Sound*** → ***Sound*** and select the `Recording` tab.
2. Right click on the `Recording` tab and select `Show Disabled Devices` (clear by default). The microphone appears on the `Recording` tab.
3. Right click on the microphone and select ***Enable***.
4. Select the microphone then click ***Properties***. Select the ***Levels*** tab.
5. Increase the volume to the maximum setting and click ***OK***.
6. Test the microphone hardware:
   - Select the microphone and click ***Configure***.
   - Select ***Set up microphone***.
   - Select the microphone type from the list and click ***Next***.
   - Follow the on-screen prompts to complete the test.
7. If the Issue is still not resolved, refer to *Online Support Information*.

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USB Failure

If the USB fails, perform the following:

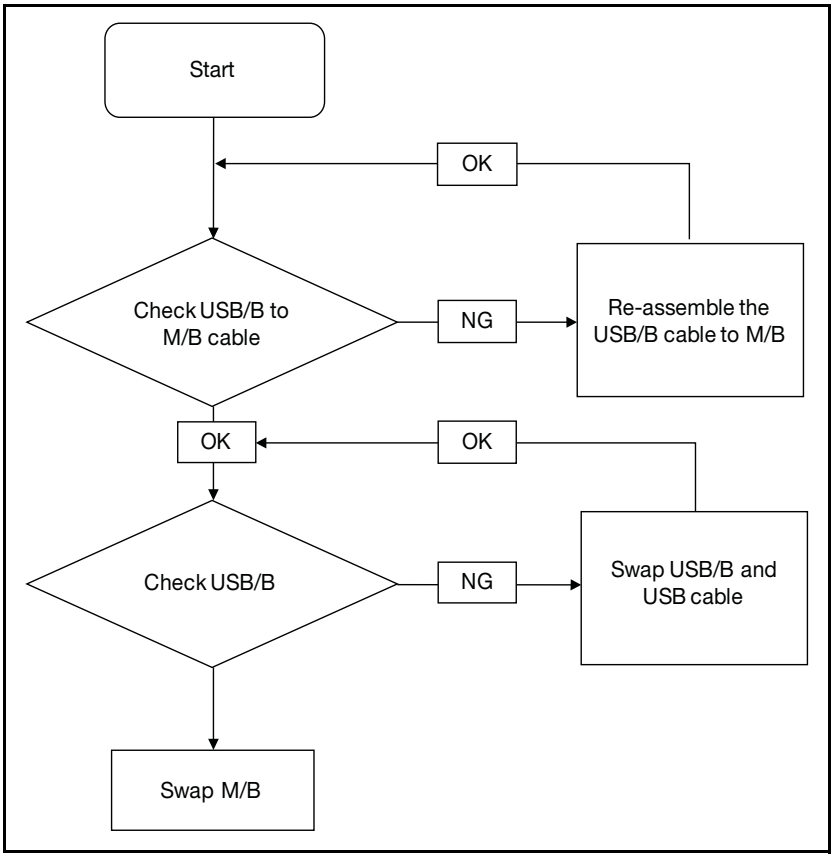

Figure 4-8. USB Failure

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Other Functions Failure

1. Check if drives are functioning correctly.
2. Check if external modules are functioning correctly.
3. Change mainboard to check if current one is defective.

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Intermittent Problems

Intermittent system hang problems can be caused by a variety of reasons that have nothing to do with a hardware defect, such as: cosmic radiation, electrostatic discharge, or software errors. FRU replacement should be considered only when a recurring problem exists.

When analyzing an intermittent problem, perform the following:

1. Run the advanced diagnostic test for the system board in loop mode at least 10 times.
2. If no error is detected, do not replace any FRU.
3. If an error is detected, replace the FRU. Rerun the test to verify that there are no more errors.

Undetermined Problems

The diagnostic problems do not identify which adapter or device failed, which installed devices are incorrect, whether a short circuit is suspected, or whether the system is inoperative.

Perform the following procedures to isolate the failing FRU (do not isolate non-defective FRU).

NOTE:
Verify that all attached devices are supported by the computer.

NOTE:
Verify that the power supply being used at the time of the failure is operating correctly. (Refer to *Power On Issues*).

1. Remove power from the computer.
2. Visually check components for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
   - Non-Acer devices
   - Printer, mouse, and other external devices
   - Battery pack
   - Hard disk drive
   - DIMM
   - CD-ROM/Diskette drive Module
   - PC Cards
4. Apply power to the computer.
5. Determine if the problem has changed.
6. If the problem does not recur, connect the removed devices one at a time until failing FRU is found.
7. If the problem remains, replace the following FRUs:
   - System board
   - LCD assembly

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Post Codes

The following are the InsydeH2O™ Functionality POST code tables. The components of the POST code table includes: SEC phase, PEI phase, DXE phase, BDS phase, CSM functions, S3 functions and ACPI functions.

Table 4-2. POST Code Range

Phase	POST Code Range
SEC	0x01 - 0x0F
PEI	0x70 - 0x9F
DXE	0x40 - 0x6F
BDS	0x10 - 0x3F
SMM	0xA0 - 0xBF
S3	0xC0 - 0xCF
ASL	0x51 – 0x55 0xE1 – 0xE4
PostBDS	0xF9 – 0xFE
InsydeH2ODDT™ Reserve	0xD0 – 0xD7
OEM Reserve	0xE8 – 0xEB
Reserved	0xD8 – 0xE0 0xE5 – 0xE7 0xEC – 0xF8

Table 4-3. SEC Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	PostCode	Description
SEC_SYSTEM_POWER_ON	SEC	01	CPU power on and switch to Protected mode
SEC_BEFORE_MICROCODE_PATCH	SEC	02	Patching CPU microcode
SEC_AFTER_MICROCODE_PATCH	SEC	03	Setup Cache as RAM
SEC_ACCESS_CSR*	SEC	04	PCIE MMIO Base Address initial
SEC_GENERIC_MSRINIT*	SEC	05	CPU Generic MSR initialization
SEC_CPU_SPEEDCFG*	SEC	06	Setup CPU speed
SEC_SETUP_CAR_OK	SEC	07	Cache as RAM test
SEC_FORCE_MAX_RATIO*	SEC	08	Tune CPU frequency ratio to maximum level

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Table 4-3. SEC Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	PostCode	Description
SEC_GO_TO_SECSTARTUP	SEC	09	Setup BIOS ROM cache
SEC_GO_TO_PEICORE	SEC	0A	Enter Boot Firmware Volume
* 3rd party relate functions – Platform dependence.			

Table 4-4. PEI Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_SIO_INIT	PEI	70	Super I/O Initialization
PEI_CPU_REG_INIT	PEI	71	CPU Early Initialization
PEI_CPU_AP_INIT*	PEI	72	Multi-processor Early Initial
PEI_CPU_HT_RESET*	PEI	73	HyperTransport Initialization
PEI_PCIE_MMIO_INIT	PEI	74	PCIE MMIO BAR Initialization
PEI_NB_REG_INIT	PEI	75	North Bridge Early Initialization
PEI_SB_REG_INIT	PEI	76	South Bridge Early Initialization
PEI_PCIE_TRAINING*	PEI	77	PCIE Training
PEI_TPM_INIT	PEI	78	TPM Initialization
PEI_SMBUS_INIT	PEI	79	SMBUS Early Initialization
PEI_PROGRAM_CLOCK_GEN	PEI	7A	Clock Generator Initialization
PEI_IGD_EARLY_INITIAL *	PEI	7B	Internal Graphic device early Initialization
PEI_HECI_INIT*	PEI	7C	HECI Initialization
PEI_WATCHDOG_INIT*	PEI	7D	Watchdog timer Initialization
PEI_MEMORY_INIT	PEI	7E	Memory Initial for Normal boot.
PEI_MEMORY_INIT_FOR_CRISIS	PEI	7F	Memory Initial for Crisis Recovery
PEI_MEMORY_INSTALL	PEI	80	Simple Memory test
PEI_TXTPEI*	PEI	81	TXT function early Initialization
PEI_SWITCH_STACK	PEI	82	Start to use Memory
PEI_MEMORY_CALLBACK	PEI	83	Set cache for physical memory
PEI_ENTER_RECOVERY_MODE	PEI	84	Recovery device Initialization
PEI_RECOVERY_MEDIA_FOUND	PEI	85	Found Recovery image
PEI_RECOVERY_MEDIA_NOT_FOUND	PEI	86	Recovery image not found
PEI_RECOVERY_LOAD_FILE_DONE	PEI	87	Load Recovery Image completed

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Table 4-4. (Continued)PEI Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
PEI_RECOVERY_START_FLASH	PEI	88	Start Flash BIOS with Recovery image
PEI_ENTER_DXEIPL	PEI	89	Loading BIOS image to RAM
PEI_FINDING_DXE_CORE	PEI	8A	Loading DXE core
PEI_GO_TO_DXE_CORE	PEI	8B	Enter DXE core
* 3rd party relate functions – Platform dependence.			

Table 4-5. DXE Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
DXE_TCGDXE*	DXE	40	TPM initial in DXE
DXE_SB_SPI_INIT*	DXE	41	South bridge SPI initialization
DXE_CF9_RESET*	DXE	42	Setup Reset service
DXE_SB_SERIAL_GPIO_INIT*	DXE	43	South bridge Serial GPIO initialization
DXE_SMMACCESS*	DXE	44	Setup SMM ACCE SS service
DXE_SIO_INIT*	DXE	46	Super I/O DXE initialization
DXE_LEGACY_REGION*	DXE	47	Setup Legacy Region service
DXE_SB_INIT*	DXE	48	South Bridge Middle initialization
DXE_IDENTIFY_FLASH_DEVICE*	DXE	49	Identify Flash device
DXE_FTW_INIT	DXE	4A	Fault Tolerant Write verification
DXE_VARIABLE_INIT	DXE	4B	Variable Service initialization
DXE_VARIABLE_INIT_FAIL	DXE	4C	Fail to initial Variable Service
DXE_MTC_INIT	DXE	4D	MTC Initial
DXE_CPU_INIT	DXE	4E	CPU Middle Initialization
DXE_MP_CPU_INIT	DXE	4F	Multi-processor Middle Initialization
DXE_SMBUS_INIT	DXE	50	SMBUS Driver Initialization
DXE_SMART_TIMER_INIT	DXE	51	8259 Initialization
DXE_PCRTC_INIT	DXE	52	RTC Initialization
DXE_SATA_INIT*	DXE	53	SATA Controller early Initialization
DXE_SMM_CONTROLER_INIT*	DXE	54	Setup SMM Control service
DXE_LEGACY_INTERRUPT*	DXE	55	Setup Legacy Interrupt service

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Table 4-5. (Continued)DXE Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
DXE_RELOCATE_SMBASE	DXE	56	Relocate SMM BASE
DXE_FIRST_SMI	DXE	57	SMI test
DXE_VTD_INIT*	DXE	58	VTD Initial
DXE_BEFORE_CSM16_INIT	DXE	59	Legacy BIOS Initialization
DXE_AFTER_CSM16_INIT	DXE	5A	Legacy interrupt function Initialization
DXE_LOAD_ACPI_TABLE	DXE	5B	ACPI Table Initialization
DXE_SB_DISPATCH*	DXE	5C	Setup SB SMM Dispatcher service
DXE_SB_IOTRAP_INIT*	DXE	5D	Setup SB IOTRAP Service
DXE_SUBCLASS_DRIVER*	DXE	5E	Build AMT Table
DXE_PPM_INIT*	DXE	5F	PPM Initialization
DXE_HECIDRV_INIT*	DXE	60	HECIDRV Initialization
* 3rd party relate functions – Platform dependence.			

Table 4-6. BDS Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_ENTER_BDS	BDS	10	Enter BDS entry
BDS_INSTALL_HOTKEY	BDS	11	Install Hotkey service
BDS_ASF_INIT*	BDS	12	ASF Initialization
BDS_PCI_ENUMERATION_START	BDS	13	PCI enumeration
BDS_BEFORE_PCIIO_INSTALL	BDS	14	PCI resource assign complete
BDS_PCI_ENUMERATION_END	BDS	15	PCI enumeration complete
BDS_CONNECT_CONSOLE_IN	BDS	16	Keyboard Controller, Keyboard and Mouse initialization
BDS_CONNECT_CONSOLE_OUT	BDS	17	Video device initialization
BDS_CONNECT_STD_ERR	BDS	18	Error report device initialization
BDS_CONNECT_USB_HC	BDS	19	USB host controller initialization
BDS_CONNECT_USB_BUS	BDS	1A	USB BUS driver initialization
BDS_CONNECT_USB_DEVICE	BDS	1B	USB device driver initialization
BDS_NO_CONSOLE_ACTION	BDS	1C	Console device initial fail
BDS_DISPLAY_LOGO_SYSTEM_INFO	BDS	1D	Display logo or system information

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Table 4-6. (Continued)BDS Phase POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
BDS_START_IDE_CONTROLLER	BDS	1E	IDE controller initialization
BDS_START_SATA_CONTROLLER	BDS	1F	SATA controller initialization
BDS_START_ISA_ACPI_CONTROLLER	BDS	20	SIO controller initialization
BDS_START_ISA_BUS	BDS	21	ISA BUS driver initialization
BDS_START_ISA_FDD	BDS	22	Floppy device initialization
BDS_START_ISA_SEIRAL	BDS	23	Serial device initialization
BDS_START_IDE_BUS	BDS	24	IDE device initialization
BDS_START_AHCI_BUS	BDS	25	AHCI device initialization
BDS_CONNECT_LEGACY_ROM	BDS	26	Dispatch option ROMs
BDS_ENUMERATE_ALL_BOOT_OPTION	BDS	27	Get boot device information
BDS_END_OF_BOOT_SELECTION	BDS	28	End of boot selection
BDS_ENTER_SETUP	BDS	29	Enter Setup Menu
BDS_ENTER_BOOT_MANAGER	BDS	2A	Enter Boot manager
BDS_BOOT_DEVICE_SELECT	BDS	2B	Try to boot system to OS
BDS_EFI64_SHADOW_ALL_LEGACY_RO M	BDS	2C	Shadow Misc Option ROM
BDS_ACPI_S3SAVE	BDS	2D	Save S3 resume required data in RAM
BDS_READY_TO_BOOT_EVENT	BDS	2E	Last Chipset initial before boot to OS
BDS_GO_LEGACY_BOOT	BDS	2F	Start to boot Legacy OS
BDS_GO_UEFI_BOOT	BDS	30	Start to boot UEFI OS
BDS_LEGACY16_PREPARE_TO_BOOT	BDS	31	Prepare to Boot to Legacy OS
BDS_EXIT_BOOT_SERVICES*	BDS	32	Send END of POST Message to ME via HECI
BDS_LEGACY_BOOT_EVENT	BDS	33	Last Chipset initial before boot to Legacy OS.
BDS_ENTER_LEGACY_16_BOOT	BDS	34	Ready to Boot Legacy OS.
BDS_RECOVERY_START_FLASH	BDS	35	Fast Recovery Start Flash.
* 3rd party relate functions – Platform dependence.			

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Table 4-7. S3 Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
S3_RESTORE_MEMORY_CONTROLLER	PEI	C0	Memory initial for S3 resume
S3_INSTALL_S3_MEMORY	PEI	C1	Get S3 resume required data from memory
S3_SWITCH_STACK	PEI	C2	Start to use memory during S3 resume
S3_MEMORY_CALLBACK	PEI	C3	Set cache for physical memory during S3 resume
S3_ENTER_S3_RESUME_PEIM	PEI	C4	Start to restore system configuration
S3_BEFORE_ACPI_BOOT_SCRIPT	PEI	C5	Restore system configuration stage1
S3_BEFORE_RUNTIME_BOOT_SCRIPT	PEI	C6	Restore system configuration stage2
S3_BEFORE_RELOCATE_SMM_BASE	PEI	C7	Relocate SMM BASE during S3 resume
S3_BEFORE_MP_INIT	PEI	C8	Multi-processor initial during S3 resume
S3_BEFORE_RESTORE_ACPI_CALLBACK	PEI	C9	Start to restore system configuration in SMM
S3_AFTER_RESTORE_ACPI_CALLBACK	PEI	CA	Restore system configuration in SMM complete
S3_GO_TO_FACS_WAKING_VECTOR	PEI	CB	Back to OS

Table 4-8. ACPI Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
ASL_ENTER_S1	ASL	51	Prepare to enter S1
ASL_ENTER_S3	ASL	53	Prepare to enter S3
ASL_ENTER_S4	ASL	54	Prepare to enter S4
ASL_ENTER_S5	ASL	55	Prepare to enter S5
ASL_WAKEUP_S1	ASL	E1	System wake up from S1
ASL_WAKEUP_S3	ASL	E3	System wake up from S3
ASL_WAKEUP_S4	ASL	E4	System wake up from S4

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Table 4-9. SMM Functions POST Code Table

Functionality Name (Include\ PostCode.h)	Phase	Post Code	Description
SMM_IDENTIFY_FLASH_DEVICE	SMM	0xA0	Identify Flash device in SMM
SMM_SMM_PLATFORM_INIT	SMM	0xA2	SMM service initial
SMM_ACPI_ENABLE_START	SMM	0xA6	OS call ACPI enable function
SMM_ACPI_ENABLE_END	SMM	0xA7	ACPI enable function complete
SMM_S1_SLEEP_CALLBACK	SMM	0xA1	Enter S1
SMM_S3_SLEEP_CALLBACK	SMM	0xA3	Enter S3
SMM_S4_SLEEP_CALLBACK	SMM	0xA4	Enter S4
SMM_S5_SLEEP_CALLBACK	SMM	0xA5	Enter S5
SMM_ACPI_DISABLE_START	SMM	0xA8	OS call ACPI disable function
SMM_ACPI_DISABLE_END	SMM	0xA9	ACPI disable function complete

Table 4-10. InsydeH2ODDT Debugger POST Code Table

Functionality Name (Include\ PostCode.h)	PostCode	Description
Used by Insyde debugger	0x0D	Waiting for device connect
Used by Insyde debugger	0xD0	Waiting for device connect
Used by Insyde debugger	0xD1	InsydeH2ODDT Ready
Used by Insyde debugger	0xD2	EHCI not found
Used by Insyde debugger	0xD3	Debug port connect low speed device
Used by Insyde debugger	0xD4	DDT Cable become low speed device
Used by Insyde debugger	0xD5	DDT Cable Transmission Error (Get descriptor fail)
Used by Insyde debugger	0xD6	DDT Cable Transmission Error (Set Debug mode fail)
Used by Insyde debugger	0xD7	DDT Cable Transmission Error (Set address fail)

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CHAPTER 5

Jumper and Connector Locations

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Mainboard Jumper and Connector Locations 5-3
Clearing Password Check and BIOS Recovery 5-5
Clearing Password Check 5-5
Clear CMOS Jumper 5-6
BIOS Recovery by Crisis Disk. 5-6

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Jumper and Connector Locations

Mainboard Jumper and Connector Locations

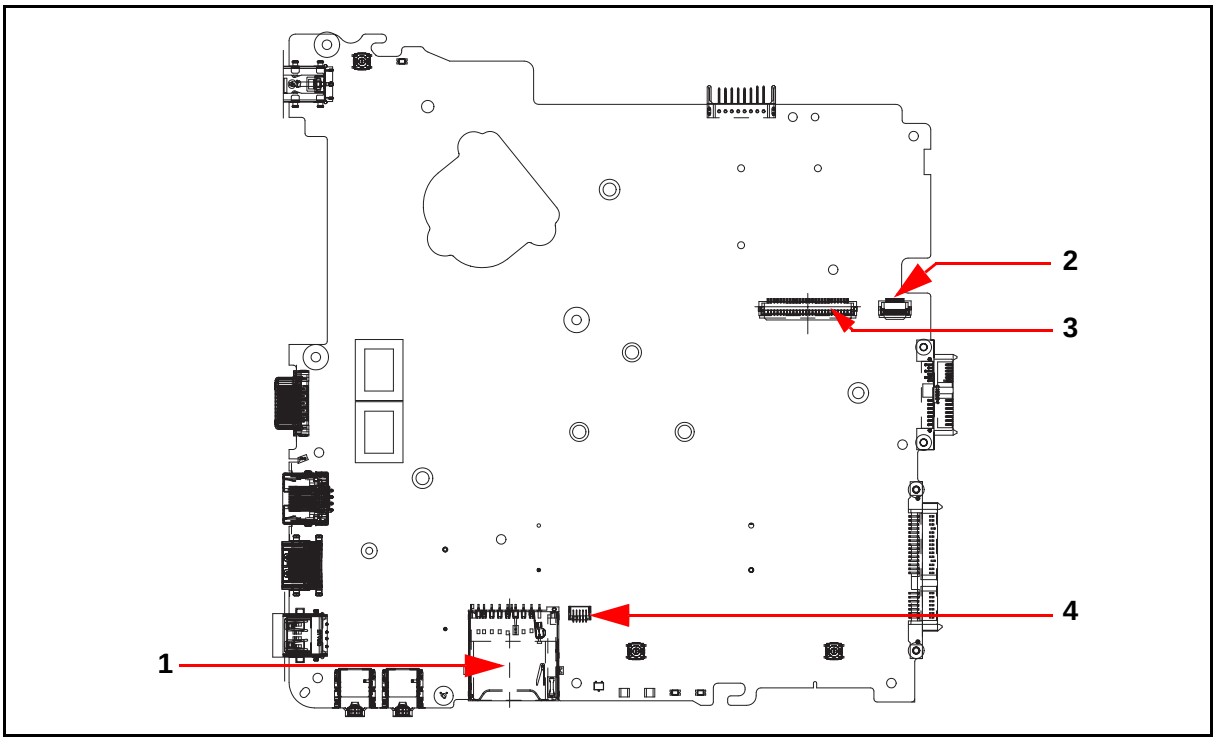

Figure 5-1. Mainboard Top

Table 5-1. Mainboard Top

Item	Description	Item	Description
1	Card Reader Connector	3	Keyboard Connector
2	Touchpad Connector	4	Bluetooth Connector

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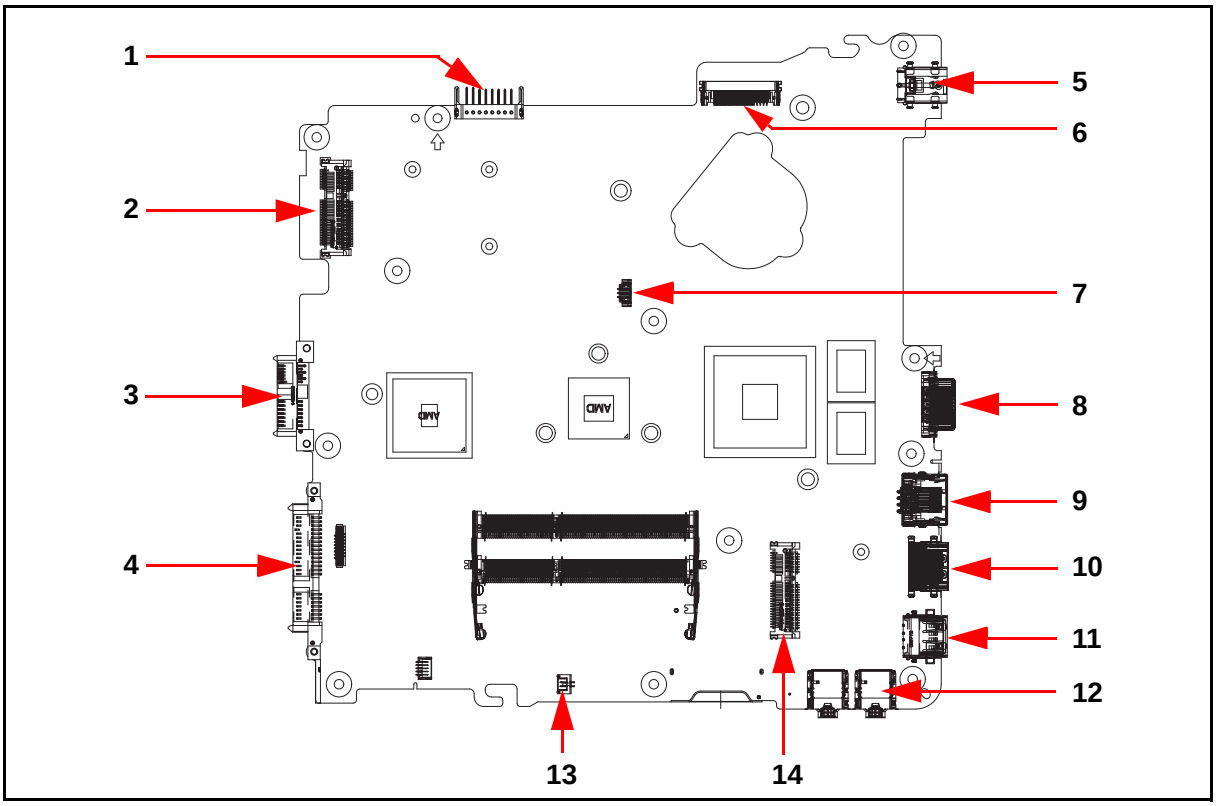

Figure 5-2. Mainboard Bottom

Table 5-2. Mainboard Bottom

Item	Description	Item	Description
1	Battery Connector	8	VGA Connector
2	Mini Card Connector	9	LAN Connector
3	ODD Connector	10	HDMI Connector
4	HDD Connector	11	USB Connector
5	DC/IN Connector	12	Headphone/SPDIF Connector
6	LCD Connector	13	Speaker Connector
7	Fan Connector	14	Mini Card Connector

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Clearing Password Check and BIOS Recovery

This section provides users with the standard operating procedures of clearing password and BIOS recovery for the Aspire 4253/4253G. The machine provides one Hardware Open Gap on main board for clearing password check, and one hot key for enabling BIOS Recovery.

Clearing Password Check

NOTE:

The following procedure is only for clearing BIOS Password (Supervisor Password and User Password).

Steps for Clearing BIOS Password Check

If users set BIOS Password (Supervisor Password and/or User Password) for a security reason, BIOS will ask the password during systems POST or when systems enter to BIOS Setup menu. However, once it is necessary to bypass the password check, users need to short the HW Gap to clear the password by the following steps:

1. Remove power from the system.
2. Remove battery.
3. Remove lower cover.
4. Disconnect the RTC battery
5. Locate the CMOS jumper.
6. Use an electric conductivity tool to short the two points of the CMOS jumper.
7. Plug in AC, keeping the CMOS jumper shorted.
8. Press *Power Button* until BIOS POST is finished, then remove the conductivity tool from the CMOS jumper.
9. Restart the system. Press ***F2*** to enter BIOS Setup menu.
10. If there is no Password request, BIOS Password is cleared.
11. If a password is requested, repeat Steps 1 through 9.

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Clear CMOS Jumper

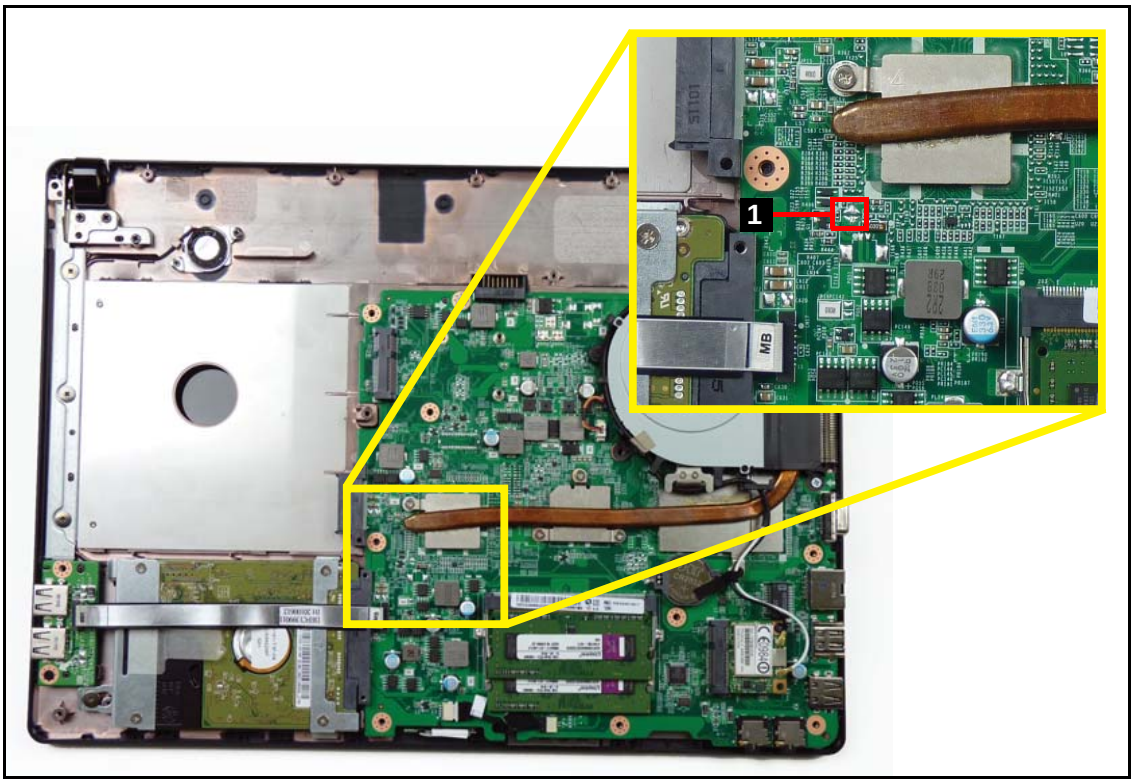

Figure 5-3. CMOS Jumper

Table 5-3. CMOS Jumper

Item	Description
1	Clear CMOS Jumper

BIOS Recovery by Crisis Disk

BIOS Recovery Boot Block

BIOS Recovery Boot Block is a special block of BIOS. It is used to boot up the system with minimum BIOS initialization. Users can enable this feature to restore the BIOS firmware to a successful one once the previous BIOS flashing process failed.

BIOS Recovery Hot Key

The system provides a function hot key, <**Fn+Esc>**, for enable BIOS Recovery process when system is powered on during BIOS POST. To use this function, it is strongly recommended to have the AC adapter and Battery present. If this function is enabled, the system will force the BIOS to enter a special BIOS block, called Boot Block.

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Steps for BIOS Recovery from USB Storage

NOTE:

Prior to performing the recovery, prepare a Crisis USB key. The Crisis USB key is created by executing the Crisis Disk program on another system with Windows 7 OS.

To Create a Crisis USB key, perform the following:

1. Format the USB storage disk using the Fast Format option.
2. Save ROM file (file name: **BIOS HM40X64.bin**) to the root directory of USB storage. Make sure that there is no other BIOS file saved in the same directory.
3. Plug USB storage into USB port.
4. Press <**Fn + ESC>** button then plug in AC power.
5. The Power button flashes once.
6. Press ***Power*** button to initiate system CRISIS mode.
7. When CRISIS is complete, the system auto restarts with a workable BIOS.
8. Update the latest version BIOS for this machine by regular BIOS flashing process.

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CHAPTER 6
FRU (Field Replaceable Unit) List

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Exploded Diagrams 6-4
FRU List 6-7
Screw List 6-20

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FRU (Field Replaceable Unit) List

This chapter provides users with a FRU (Field Replaceable Unit) listing in global configurations for the Aspire 4253/4253G. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE:

WHEN ORDERING FRU PARTS, check the most up-to-date information available on the regional web or channel. Part number changes will not be noted on the printed Service Guide. For ACER AUTHORIZED SERVICE PROVIDERS, the Acer office may have a DIFFERENT part number code from those given in the FRU list of this printed Service Guide. Users MUST use the local FRU list provided by the regional Acer office to order FRU parts for repair and service of customer machines.

NOTE:

To scrap or to return the defective parts, users should follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by the regional Acer office on how to return it.

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Exploded Diagrams

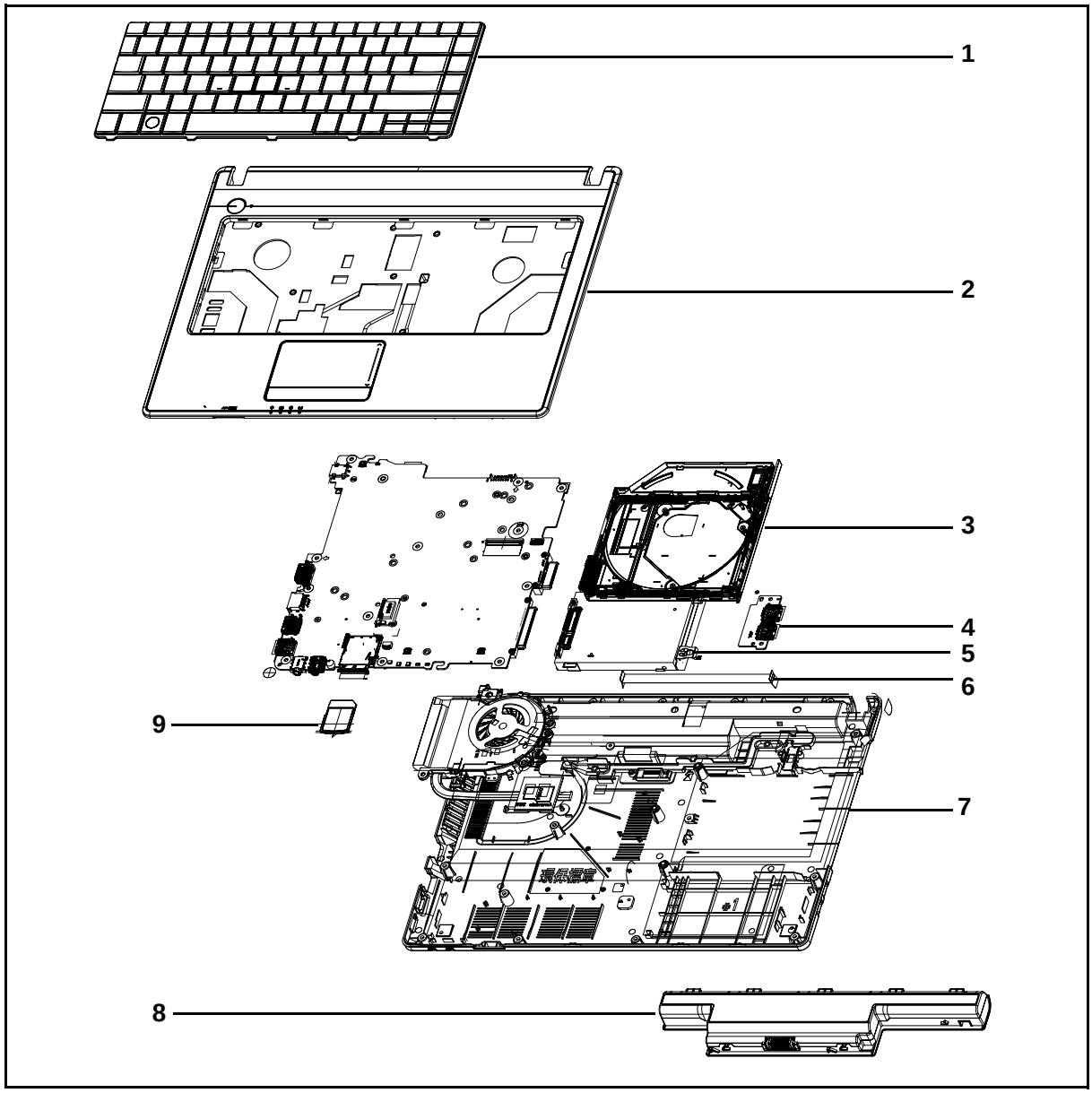

Figure 6-1. Upper & Lower Cover Exploded Diagram

Table 6-1. Upper & Lower Cover Exploded Diagram

No.	Description	Acer Part No.
1	Keyboard	KB.I140A.204
2	Upper Case	60.R6Z07.001
3	ODD Module	6M.RDX07.001
4	USB Board	55.R6Z07.001
5	HDD Module	KH.16001.045

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Table 6-1. Upper & Lower Cover Exploded Diagram

No.	Description	Acer Part No.
6	USB to Mainboard FFC	50.R6Z07.001
7	Lower Case	60.R6Z07.007
8	Battery	BT.00603.111
9	Dummy Card	42.PSR07.002

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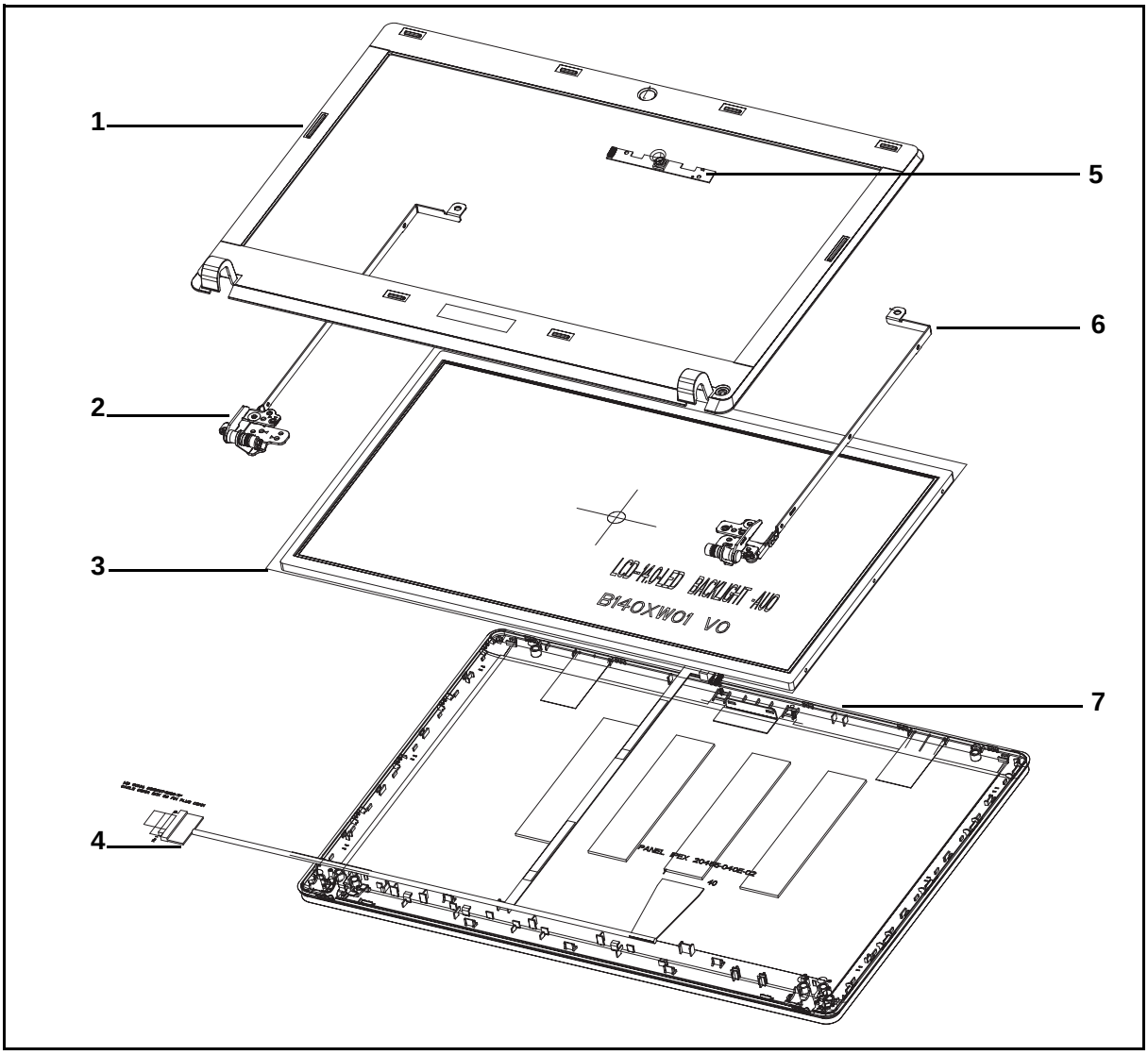

Figure 6-2. LCD Assembly Exploded Diagram

Table 6-2. LCD Assembly Exploded Diagram

No.	Description	Acer Part No.
1	LCD Bezel	60.R6Z07.010
2	LCD Bracket (Left)	33.R6Z07.004
3	LED Panel	6M.RDX07.002
4	LVDS Cable	50.R6Z07.004
5	Camera	AM.21400.067
6	LCD Bracket (Right)	33.R6Z07.005
7	LCD Cover	60.R6Z07.009

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FRU List

Table 6-3. FRU List

Category	Description	Acer Part No.
ADAPTER		
	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65JH DB A, LV5 LED LF	AP.06501.026
	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-22AC LV5 LED LF	AP.06503.024
	Adapter HIPRO 65W 19V 1.7x5.5x11 Yellow HP-A0652R3B 1LF, LV5 LED LF	AP.0650A.012
	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65VH BA, LV5, Low profile LED LF	AP.06501.033
	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-69AW, LV5, Low profile LED LF	AP.06503.029
	Adapter Chicony Power 65W 19V 1.7x5.5x11 Yellow CPA09-A065N1, LV5, low profile LED LF	AP.0650A.017
BATTERY		
	Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON ID:AS10D31	BT.00603.111
	Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41	BT.00604.049
	Battery PANASONIC AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D51	BT.00605.062
	Battery SAMSUNG AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D61	BT.00606.008
	Battery SIMPLO AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D71	BT.00607.125
	Battery SIMPLO AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D73	BT.00607.126
	Battery SIMPLO AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D	BT.00607.127
	Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON new IC BQ8055	BT.00603.124

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Table 6-3. FRU List

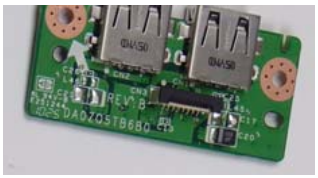
Category	Description	Acer Part No.
BOARD		
	Foxconn Wireless LAN Atheros HB95BG (HM) T77H121.10	NI.23600.077
	Liteon Wireless LAN Atheris HB97 2x2 BGN (HM) WN6603AH	NI.23600.073
	Foxconn Wireless LAN Atheros HB97 2x2 BGN (HM)	NI.23600.072
	Foxconn Wireless LAN Broadcomm 43225 2x2 BGN (HM) T77H103.00	NI.23600.066
	Foxconn Bluetooth BRM 2070 (T77H114.01)	BH.21100.007
	Foxconn Bluetooth BRM 2070 (T77H114.01)	BH.21100.010
	Foxconn Bluetooth ATH BU12(2.1)	BH.21100.012
	Foxconn Bluetooth ATH BU12(3.0)	BH.21100.011
	USB BOARD	55.R6Z07.001
CABLE		
	POWER CORD(EU) 1.8M 3PBLACK FM010008-010	27.TATV7.001
	POWER CORD UK 3PIN	27.A03V7.004
	POWER CORD PRC 3P Y536B30001218008	27.TATV7.004
	POWER CORD US 3PIN ROHS	27.TAXV7.001
	PWR CORD(ISR)1.8M 3PBLK FZ0I0008-038	27.TATV7.005
	PWR CORD V50CB3T3012180QD TW-110V,3P	27.A99V7.002
	POWER CORD(SWI)1.8M 3PBLACK FZ010008-011	27.A99V7.004
	POWER CORD(IT) 1.8M 3PBLACK FZ010008-008	27.A99V7.005

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Table 6-3. FRU List

Category	Description	Acer Part No.
	POWER CORD(S.A) 1.8M 3BLACK FZ010008-006	27.T48V7.001
	POWER CORD(EU) 1.8M 3PBLACK FM010008-010	27.TATV7.001
	POWER CORD BRAZIL IMETRO 3 PIN	27.S0607.001
	PWR CORD V943B30001218008 DANISH 3P	27.A03V7.006
	BLUETOOTH CABLE (6P FOR BT3.0 BRM2070)	50.TVM07.002
	BLUETOOTH CABLE	50.PSR07.001
	FFC- USB TO M/B	50.R6Z07.001
CASE/COVER/BRACKET ASSEMBLY		
	UPPER CASE W/ SPK,TP, TP FFC - BLACK	60.R6Z07.001
	UPPER CASE W/ SPK,TP, TP FFC - BROWN	60.R6Z07.002
	UPPER CASE W/ SPK,TP, TP FFC - RED	60.R6Z07.003
	LOWER CASE	60.R6Z07.007
	HINGE SUPPORT BRACKET FOR UPPER CASE	33.R6Z07.001
	DUMMY CARD	42.PSR07.002
	CPU SUPPORT BRACKET	33.RDX07.001

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Table 6-3. FRU List

Category	Description	Acer Part No.
DVD RW DRIVE		
	DVD/RW SUPER MULTI SATA MODULE	6M.RDX07.001
	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633F LF W/O bezel SATA (HF + Windows 7)	KU.00801.040
	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT32N (R5-2) LF W/O bezel SATA with Renesas solution + PCC LD (HF + Windows 7)	KU.0080D.055
	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A5SH LF+HF W/O bezel SATA With TI + Rohm Solution (HF + Windows 7)	KU.0080F.014
	ODD SONY Super-Multi DRIVE 12.7mm Tray DL 8X AD-7585H LF W/O bezel SATA (HF + Windows 7)	KU.0080E.027
	ODD PIONEER Super-Multi DRIVE 12.7mm Tray DL 8X DVR-TD10RS LF W/O bezel 1.00 SATA	KU.00805.049
	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT34N LF W/O bezel SATA Zero Power Supported, PCC LD (HF + Windows 7)	KU.0080D.057
	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ890A LF W/O bezel SATA (HF + Windows 7)	KU.00807.064
	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633F LF W/O bezel SATA (HF + Windows 7)	KU.00801.040
	ODD BEZEL - SUPER MULTI	60.R6Z07.008
	ODD BRACKET	33.PUM07.001
HDD/HARD DISK DRIVE		
	HDD SEAGATE 2.5" 5400rpm 160GB ST9160314AS,9HH13C-189, Seagate(new pcb) SATA 8MB LF F/W:0001SDM1	KH.16001.045

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Table 6-3. FRU List

Category	Description	Acer Part No.
	HDD HGST 2.5" 5400rpm 160GB HTS545016B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.16007.026
	HDD TOSHIBA 2.5" 5400rpm 160GB MK1665GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J	KH.16004.008
	HDD WD 2.5" 5400rpm 160GB WD1600BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01	KH.16008.027
	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J	KH.25004.005
	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.25007.016
	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.25001.019
	HDD WD 2.5" 5400rpm 250GB WD2500BEVT-22A23T0, WD, ML320S SATA 8MB LF F/W:01.01A01.	KH.25008.025
	HDD WD 2.5" 5400rpm 250GB WD2500BPVT-22ZEST0,ML320S-AF, 4K drive SATA 8MB LF F/W:01.01A01 4K drive	KH.25008.029
	HDD SEAGATE 2.5" 5400rpm 250GB ST92503010AS, Sapta 1, 7mmZH, 250G/P SATA 8MB LF F/W:0001SDM1	KH.25001.018
	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS,MK3265GSX SATA 8MB LF F/W:GJ001J	KH.32004.004
	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.32007.008
	HDD WD 2.5" 5400rpm 320GB WD3200BPVT-22ZEST0, ML320S, 4K drive SATA 8MB LF F/W: 01.01A01	KH.32008.022
	HDD SEAGATE 2.5" 5400rpm 320GB ST9320310AS,9RN132-188, Cameron 320G/P SATA 8MB LF F/W:0001SDM1	KH.32001.019
	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ001J	KH.50004.002

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Table 6-3. FRU List

Category	Description	Acer Part No.
	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.50007.010
	HDD WD 2.5" 5400rpm 500GB WD5000BEVT-22A0RT0, ML320M,WD SATA 8MB LF F/W:01.01A01	KH.50008.017
	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS,9HH134-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.50001.017
	HDD WD 2.5" 5400rpm 500GB WD5000BPVT-22HXZT1,ML375_AF, 4K drive SATA 8MB LF+HF F/W:01.01A01	KH.50008.021
	HDD WD 2.5" 5400rpm 640GB WD6400BEVT-22A0RT0, ML320 SATA 8MB LF F/W:01.01A01	KH.64008.004
	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ002J	KH.64004.001
	HDD WD 2.5" 5400rpm 640GB WD6400BPVT-22HXZT1, ML375M SATA 8MB LF F/W: 01.01A01(4K)	KH.64008.005
	HDD WD 2.5" 5400rpm 750GB WD7500BPVT-22HXZT1, ML375M, 4K drive SATA 8MB LF F/W:01.01A01	KH.75008.009
	HDD TOSHIBA 2.5" 5400rpm 750GB MK7559GSX, 375G/P, Capricorn BS, 4K drive SATA 8MB LF+HF F/W:GNDD3J	KH.75004.001
	HDD SEAGATE 2.5" 5400rpm 750GB ST9750423AS,9ZW14G-188, Desaru5(4K), 375G/P. SATA 8MB LF+HF F/W:0001SDM1	KH.75001.011
	HDD HGST 2.5" 5400rpm 750GB HTS547575A9E384, 0J15083, Jet B(4K), 375G/P SATA 8MB LF F/W:DA3872	KH.75007.004
	HDD BRACKET	33.R6Z07.002
	HDD FRONT BRACKET	33.R6Z07.003

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Table 6-3. FRU List

Category	Description	Acer Part No.
KEYBOARD		
	Keyboard ACER AC4T_A10B AC4T 86KS Black Arabic Texture	KB.I140A.204
	Keyboard ACER AC4T_A10B AC4T 87KS Black Belgium Texture	KB.I140A.205
	Keyboard ACER AC4T_A10B AC4T 87KS Black Brazilian Portuguese Texture	KB.I140A.206
	Keyboard ACER AC4T_A10B AC4T 87KS Black CZ/SK Texture	KB.I140A.207
	Keyboard ACER AC4T_A10B AC4T 86KS Black Chinese Texture	KB.I140A.208
	Keyboard ACER AC4T_A10B AC4T 87KS Black Danish Texture	KB.I140A.209
	Keyboard ACER AC4T_A10B AC4T 87KS Black FR/Arabic Texture	KB.I140A.210
	Keyboard ACER AC4T_A10B AC4T 87KS Black French Texture	KB.I140A.211
	Keyboard ACER AC4T_A10B AC4T 87KS Black German Texture	KB.I140A.212
	Keyboard ACER AC4T_A10B AC4T 86KS Black Greek Texture	KB.I140A.213
	Keyboard ACER AC4T_A10B AC4T 87KS Black Hungarian Texture	KB.I140A.214
	Keyboard ACER AC4T_A10B AC4T 87KS Black Italian Texture	KB.I140A.215
	Keyboard ACER AC4T_A10B AC4T 91KS Black Japanese Texture	KB.I140A.216
	Keyboard ACER AC4T_A10B AC4T 86KS Black Korean Texture	KB.I140A.217
	Keyboard ACER AC4T_A10B AC4T 87KS Black Nordic Texture	KB.I140A.218
	Keyboard ACER AC4T_A10B AC4T 87KS Black Norwegian Texture	KB.I140A.219
	Keyboard ACER AC4T_A10B AC4T 87KS Black Portuguese Texture	KB.I140A.220
	Keyboard ACER AC4T_A10B AC4T 86KS Black Russian Texture	KB.I140A.221

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Table 6-3. FRU List

Category	Description	Acer Part No.
	Keyboard ACER AC4T_A10B AC4T 87KS Black SLO/CRO Texture	KB.I140A.222
	Keyboard ACER AC4T_A10B AC4T 87KS Black Spanish Texture	KB.I140A.223
	Keyboard ACER AC4T_A10B AC4T 87KS Black Sweden Texture	KB.I140A.224
	Keyboard ACER AC4T_A10B AC4T 87KS Black Swiss/G Texture	KB.I140A.225
	Keyboard ACER AC4T_A10B AC4T 86KS Black Thailand Texture	KB.I140A.226
	Keyboard ACER AC4T_A10B AC4T 87KS Black Turkish Texture	KB.I140A.227
	Keyboard ACER AC4T_A10B AC4T 87KS Black UK Texture	KB.I140A.228
	Keyboard ACER AC4T_A10B AC4T 86KS Black US International Texture	KB.I140A.229
	Keyboard ACER AC4T_A10B AC4T 86KS Black US International w/ Hebrew Texture	KB.I140A.230
	Keyboard ACER AC4T_A10B AC4T 87KS Black US w/ Canadian French Texture	KB.I140A.231
LCD		
	LCD MODULE 14" LED GLARE IMR W/CCD, ANTENNA*2 - BLACK	6M.RDX07.002
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G04 LF 220nit 8ms 500:1	LK.14006.015
	LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1	LK.14008.004
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1	LK.14006.011
	LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving)	LK.14005.010
	LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1	LK.1400D.008
	LCD COVER W/ ANT - IMR BLACK	60.R6Z07.009

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Table 6-3. FRU List

Category	Description	Acer Part No.
	LCD BEZEL FOR CCD	60.R6Z07.010
	LCD BRACKET W/ HINGE - L	33.R6Z07.004
	LCD BRACKET W/ HINGE - R	33.R6Z07.005
	LCD CABLE	50.R6Z07.004
	Chicony 1.3M CH9665SN (CNF9157)	AM.21400.067
	Suyin 1.3M SY9665SN	AM.21400.068
	Liteon 1.3M LT9665AL (09P2SF119)	AM.21400.069
LCD		
	LCD MODULE 14" LED GLARE IMR W/CCD, ANTENNA*2 - BROWN	6M.RDX07.003
	LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1	LK.14008.004
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1	LK.14006.011
	LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving)	LK.14005.010
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G04 LF 220nit 8ms 500:1	LK.14006.015
	LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1	LK.1400D.008
	LCD COVER W/ ANT - IMR BROWN	60.R6Z07.011

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Table 6-3. FRU List

Category	Description	Acer Part No.
	LCD BEZEL FOR CCD	60.R6Z07.010
	LCD BRACKET W/ HINGE - L	33.R6Z07.004
	LCD BRACKET W/ HINGE - R	33.R6Z07.005
	LCD CABLE	50.R6Z07.004
	Chicony 1.3M CH9665SN (CNF9157)	AM.21400.067
	Suyin 1.3M SY9665SN	AM.21400.068
	Liteon 1.3M LT9665AL (09P2SF119)	AM.21400.069
LCD		
	LCD MODULE 14" LED GLARE IMR W/CCD, ANTENNA*2 - RED	6M.RDX07.002
	LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1	LK.14008.004
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G03 LF 220nit 8ms 500:1	LK.14006.011
	LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving)	LK.14005.010
	LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1	LK.1400D.008
	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G04 LF 220nit 8ms 500:1	LK.14006.015
	LCD COVER W/ ANT - IMR RED	60.R6Z07.012

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Table 6-3. FRU List

Category	Description	Acer Part No.
	LCD BEZEL FOR CCD	60.R6Z07.010
	LCD BRACKET W/ HINGE - L	33.R6Z07.004
	LCD BRACKET W/ HINGE - R	33.R6Z07.005
	LCD CABLE	50.R6Z07.004
	Chicony 1.3M CH9665SN (CNF9157)	AM.21400.067
	Suyin 1.3M SY9665SN	AM.21400.068
	Liteon 1.3M LT9665AL (09P2SF119)	AM.21400.069
MAINBOARD		
	MAIN BOARD UMA E350 1.6G, W/CARD READER,MIC	MB.RDT06.001
	MAIN BOARD SEYMOUR_XT E350 1.6G, W/CARD READER,MIC	MB.RDW06.001
MEMORY		
	Memory ELPIDA SO-DIMM DDRIII 1333 1GB EBJ10UE8BDS0-DJ-F LF 128*8 0.065um	KN.1GB09.015
	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm	KN.1GB0B.035
	Memory HYNIX SO-DIMM DDRIII 1333 1GB HMT112S6TFR8C-H9 LF 128*8 0.055um	KN.1GB0G.026
	Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um	KN.1GB07.004
	Memory UNIFOSA SO-DIMM DDRIII 1333 1GB GU672203EP0200 LF 128*8 0.065um	KN.1GB0H.017

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Table 6-3. FRU List

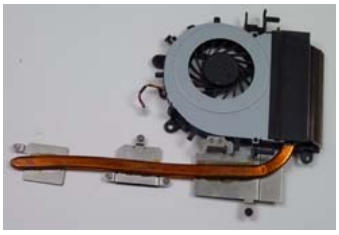
Category	Description	Acer Part No.
	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um	KN.2GB07.004
	Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5673FH0-CH9 LF 128*8 46nm	KN.2GB0B.023
	Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5773CHS-CH9 LF 256*8 46nm	KN.2GB0B.026
	Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT125S6TFR8C-H9 LF 128*8 0.055um	KN.2GB0G.016
	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um	KN.2GB07.004
	Memory NANYA SO-DIMM DDRIII 1333 2GB NT2GC64B88B0NS-CG LF 256*8 0.055um	KN.2GB03.021
	Memory MICRON SO-DIMM DDRIII 1333 2GB MT8JSF25664HZ-1G4D1 LF 256*8 0.055um	KN.2GB04.017
	Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT325S6BFR8C-H9 LF 256*8 46nm	KN.2GB0G.018
	Memory SAMSUNG SO-DIMM DDRIII 1066 4GB M471B5273BH1-CF8 LF 256*8 0.055um	KN.4GB0B.007
HEATSINK		
	THERMAL MODULE UMA 18W	60.RDX07.001
	THERMAL MODULE DIS 18W	60.RDX07.002
SPEAKER		
	SPEAKER	23.R6Z07.001

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Table 6-3. FRU List

Category	Description	Acer Part No.
MISCELLANEOUS		
	RUBBER FOOT - REAR	47.PSR07.003
	LOWER CASE RUBBER FOOT - F	47.PSR07.001
	LCD RUBBER - UP	47.R6Z07.001
	LCD RUBBER - MID	47.R6Z07.002
	LCD SCREW MYLAR	47.R6Z07.003
	TP PROTECT MYLAR	47.R6Z07.004

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Screw List

Table 6-4. Screw List

CATEGORY	Description	Acer Part No.
	SCREW M2-0.4*2-I(BNI)(NYLOK)IRON	86.W4107.002
	SCREW M2.0*3.0-I(BKAG)(NYLOK IRON	86.ARE07.002
	SCREW M3*0.5+3.5I	86.N1407.007
	SCREW M2.5*4.0-I(NI)(NYLOK)	86.R6Z07.001
	SCREW M2.0*5-I(NI)(NYLOK)	86.T23V7.010
	SCREW M2.0*3.95-I(BNI)(NYLOK)	86.R6Z07.002
	SCREW M2.5*6.5-I(BZN(NYLOK-RED)	86.ARE07.001
	SCREW M2.5*4.0-I(BKAG)(NYLOK)IRON	86.PSR07.001

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CHAPTER 7

Model Definition and Configuration

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Acer 4255 7-1
Aspire 4253G 7-22

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Model Definition and Configuration

Acer 4255

Table 7-1. RO, Description

Model	RO	Country	Acer Part No	Description
AS4253-E351G32Mncc	AAP	Indonesia	LX.RDU08.001	AS4253-E351G32Mncc EM W7ST32EMASID1 MC UMACcc_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_GEc_ID21
AS4253-E351G32Mncc	AAP	Indonesia	LX.RDU0C.004	AS4253-E351G32Mncc LINPUSAID1 UMACcc_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_GEc_ID22
AS4253-E351G32Mncc	AAP	Thailand	LX.RDU0C.005	AS4253-E351G32Mncc LINPUSATH3 UMACcc_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_GEc_EN11
AS4253-E351G32Mncc	AAP	Thailand	LX.RDU0C.006	AS4253-E351G32Mncc LINPUSATH1 UMACcc_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_GEc_TH51
AS4253-E351G32Mncc	AAP	Thailand	LX.RDU0C.007	AS4253-E351G32Mncc LINPUSATH4 UMACcc_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253-E351G32Mnkk	AAP	Indonesia	LX.RDT08.002	AS4253-E351G32Mnkk EM W7ST32EMASID1 MC UMACkk_3 1*1G/320/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ID21
AS4253-E351G32Mnkk	AAP	Indonesia	LX.RDT08.003	AS4253-E351G32Mnkk EM W7ST32EMASID1 MC UMACkk_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_GEk_ID21
AS4253-E351G32Mnkk	AAP	Indonesia	LX.RDT0C.006	AS4253-E351G32Mnkk LINPUSAID1 UMACkk_3 1*1G/320/6L2.2/2R/CB_bgn_1.3C_GEk_ID22

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Table 7-1. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253-E35 1G32Mnkk	AAP	Thailand	LX.RDT0C.008	AS4253-E351G32Mnkk LINPUSATH4 UMACkk_3 1*1G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEk_ES61
AS4253-E35 1G32Mnkk	AAP	Thailand	LX.RDT0C.009	AS4253-E351G32Mnkk LINPUSATH3 UMACkk_3 1*1G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEk_EN11
AS4253-E35 1G32Mnkk	AAP	Thailand	LX.RDT0C.010	AS4253-E351G32Mnkk LINPUSATH1 UMACkk_3 1*1G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEk_TH51
AS4253-E35 1G32Mnrr	AAP	Thailand	LX.RDV0C.004	AS4253-E351G32Mnrr LINPUSATH4 UMACrr_3 1*1G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEr_ES61
AS4253-E35 1G32Mnrr	AAP	Thailand	LX.RDV0C.005	AS4253-E351G32Mnrr LINPUSATH3 UMACrr_3 1*1G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEr_EN11
AS4253-E35 1G32Mnrr	AAP	Thailand	LX.RDV0C.006	AS4253-E351G32Mnrr LINPUSATH1 UMACrr_3 1*1G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEr_TH51
AS4253-E35 2G25Mnkk	PA	ACLA-Spanish	LX.RDT0C.001	AS4253-E352G25Mnkk LINPUSAEA1 UMACkk_3 1*2G/250/6L2.2/2R/CB_bgn_1. 3C_GEk_ESG2
AS4253-E35 2G32Mncc	CHINA	China	LX.RDU01.001	AS4253-E352G32Mncc W7HB64SCASCN1 MC UMACcc_3 1*2G/320/6L2.2/2R/CB_bgn_1. 3C_GEc_SC11
AS4253-E35 2G32Mncc	CHINA	China	LX.RDU0C.008	AS4253-E352G32Mncc LINPUSACN1 UMACcc_3 1*2G/320/6L2.2/2R/CB_bgn_1. 3C_GEc_EN91
AS4253-E35 2G32Mncc	AAP	Indonesia	LX.RDU01.002	AS4253-E352G32Mncc EM W7HB64EMASID1 MC UMACcc_3 1*2G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEc_ID21

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Table 7-1. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253-E35 2G32Mncc	AAP	Malaysia	LX.RDU0C.009	AS4253-E352G32Mncc LINPUSAMY1 UMACcc_3 1*2G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEc_EN11
AS4253-E35 2G32Mnkk	PA	ACLA-Spanish	LX.RDT01.001	AS4253-E352G32Mnkk EM W7HB64EMASEA1 MC UMACkk_3 1*2G/320/6L2.2/2R/CB_bgn_1. 3C_GEk_PT22
AS4253-E35 2G32Mnkk	PA	ACLA-Spanish	LX.RDT08.001	AS4253-E352G32Mnkk EM W7ST32EMASEA1 MC UMACkk_3 1*2G/320/6L2.2/2R/CB_GN_1.3 C_GEk_PT22
AS4253-E35 2G32Mnkk	CHINA	China	LX.RDT01.002	AS4253-E352G32Mnkk W7HB64SCASCN1 MC UMACkk_3 1*2G/320/6L2.2/2R/CB_bgn_1. 3C_GEk_SC11
AS4253-E35 2G32Mnkk	CHINA	China	LX.RDT0C.011	AS4253-E352G32Mnkk LINPUSACN1 UMACkk_3 1*2G/320/6L2.2/2R/CB_bgn_1. 3C_GEk_EN91
AS4253-E35 2G32Mnkk	AAP	Indonesia	LX.RDT01.003	AS4253-E352G32Mnkk EM W7HB64EMASID1 MC UMACkk_3 1*2G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEk_ID21
AS4253-E35 2G32Mnkk	AAP	Malaysia	LX.RDT0C.012	AS4253-E352G32Mnkk LINPUSAMY1 UMACkk_3 1*2G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEk_EN11
AS4253-E35 2G32Mnrr	CHINA	China	LX.RDV01.001	AS4253-E352G32Mnrr W7HB64SCASCN1 MC UMACrr_3 1*2G/320/6L2.2/2R/CB_bgn_1. 3C_GEr_SC11
AS4253-E35 2G32Mnrr	AAP	Malaysia	LX.RDV0C.007	AS4253-E352G32Mnrr LINPUSAMY1 UMACrr_3 1*2G/320/BT/6L2.2/2R/CB_bgn _1.3C_GEr_EN11
AS4253-E35 2G50Mncc	AAP	Thailand	LX.RDU08.002	AS4253-E352G50Mncc EM W7ST32EMASTH1 MC UMACcc_3 1*2G/500_L/BT/6L2.2/2R/CB_b gn_1.3C_GEc_TH71

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Table 7-1. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253-E35 2G50Mncc	AAP	Thailand	LX.RDU08.003	AS4253-E352G50Mncc EM W7ST32EMASTH3 MC UMACcc_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253-E35 2G50Mncc	AAP	Thailand	LX.RDU08.004	AS4253-E352G50Mncc EM W7ST32EMASTH4 MC UMACcc_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253-E35 2G50Mncc	AAP	Thailand	LX.RDU0C.001	AS4253-E352G50Mncc LINPUSATH3 UMACcc_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_EN11
AS4253-E35 2G50Mncc	AAP	Thailand	LX.RDU0C.002	AS4253-E352G50Mncc LINPUSATH1 UMACcc_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_TH51
AS4253-E35 2G50Mncc	AAP	Thailand	LX.RDU0C.003	AS4253-E352G50Mncc LINPUSATH4 UMACcc_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253-E35 2G50Mnkk	CHINA	China	LX.RDT0C.013	AS4253-E352G50Mnkk LINPUSACN1 UMACkk_3 1*2G/500_L/6L2.2/2R/CB_bgn_1.3C_GEk_EN91
AS4253-E35 2G50Mnkk	AAP	Thailand	LX.RDT08.004	AS4253-E352G50Mnkk EM W7ST32EMASTH1 MC UMACkk_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_TH71
AS4253-E35 2G50Mnkk	AAP	Thailand	LX.RDT08.005	AS4253-E352G50Mnkk EM W7ST32EMASTH3 MC UMACkk_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ES61
AS4253-E35 2G50Mnkk	AAP	Thailand	LX.RDT08.006	AS4253-E352G50Mnkk EM W7ST32EMASTH4 MC UMACkk_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ES61
AS4253-E35 2G50Mnkk	AAP	Thailand	LX.RDT0C.003	AS4253-E352G50Mnkk LINPUSATH3 UMACkk_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_EN11

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Table 7-1. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253-E35 2G50Mnkk	AAP	Thailand	LX.RDT0C.004	AS4253-E352G50Mnkk LINPUSATH1 UMACkk_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_TH51
AS4253-E35 2G50Mnkk	AAP	Thailand	LX.RDT0C.005	AS4253-E352G50Mnkk LINPUSATH4 UMACkk_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ES61
AS4253-E35 2G50Mnrr	CHINA	China	LX.RDV0C.008	AS4253-E352G50Mnrr LINPUSACN1 UMACrr_3 1*2G/500_L/6L2.2/2R/CB_bgn_1.3C_GEr_EN91
AS4253-E35 2G50Mnrr	AAP	Thailand	LX.RDV08.001	AS4253-E352G50Mnrr EM W7ST32EMASTH1 MC UMACrr_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_TH71
AS4253-E35 2G50Mnrr	AAP	Thailand	LX.RDV08.002	AS4253-E352G50Mnrr EM W7ST32EMASTH3 MC UMACrr_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_ES61
AS4253-E35 2G50Mnrr	AAP	Thailand	LX.RDV08.003	AS4253-E352G50Mnrr EM W7ST32EMASTH4 MC UMACrr_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_ES61
AS4253-E35 2G50Mnrr	AAP	Thailand	LX.RDV0C.001	AS4253-E352G50Mnrr LINPUSATH4 UMACrr_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_ES61
AS4253-E35 2G50Mnrr	AAP	Thailand	LX.RDV0C.002	AS4253-E352G50Mnrr LINPUSATH1 UMACrr_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_TH51
AS4253-E35 2G50Mnrr	AAP	Thailand	LX.RDV0C.003	AS4253-E352G50Mnrr LINPUSATH3 UMACrr_3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_EN11
AS4253-E35 3G32Mnkk	PA	ACLA-Spanish	LX.RDT02.001	AS4253-E353G32Mnkk EM W7HP64EMASEA1 MC UMACkk_3 2G+1G/320/6L2.2/2R/CB_bgn_1.3C_GEk_PT22

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Table 7-1. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253-E35 3G32Mnkk	PA	ACLA-Spanish	LX.RDT0C.002	AS4253-E353G32Mnkk LINPUSAEA1 UMACkk_3 2G+1G/320/6L2.2/2R/CB_bgn_ 1.3C_GEk_ESG2
AS4253-E35 4G50Mnkk	PA	ACLA-Spanish	LX.RDT0C.007	AS4253-E354G50Mnkk LINPUSAEA1 UMACkk_3 2*2G/500_L/6L2.2/2R/CB_GN_ 1.3C_GEk_ESG2

Table 1-2. CPU, LCD

Model	Country	Acer Part No	CPU	LCD
AS4253-E35 1G32Mncc	Indonesia	LX.RDU08.001	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mncc	Indonesia	LX.RDU0C.004	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.005	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.006	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.007	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.002	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.003	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT0C.006	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.008	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.009	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.010	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.004	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.005	AMDE350B	NLED14WXGAG
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.006	AMDE350B	NLED14WXGAG

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Table 1-2. CPU, LCD (Continued)

Model	Country	Acer Part No	CPU	LCD
AS4253-E35 2G25Mnkk	ACLA-Spanish	LX.RDT0C.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mncc	China	LX.RDU01.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mncc	China	LX.RDU0C.008	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mncc	Indonesia	LX.RDU01.002	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mncc	Malaysia	LX.RDU0C.009	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT01.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT08.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnkk	China	LX.RDT01.002	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnkk	China	LX.RDT0C.011	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnkk	Indonesia	LX.RDT01.003	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnkk	Malaysia	LX.RDT0C.012	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnrr	China	LX.RDV01.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G32Mnrr	Malaysia	LX.RDV0C.007	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.002	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.003	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.004	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.002	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.003	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnkk	China	LX.RDT0C.013	AMDE350B	NLED14WXGAG

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Table 1-2. CPU, LCD (Continued)

Model	Country	Acer Part No	CPU	LCD
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.004	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.005	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.006	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.003	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.004	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.005	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	China	LX.RDV0C.008	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.002	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.003	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.001	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.002	AMDE350B	NLED14WXGAG
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.003	AMDE350B	NLED14WXGAG
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT02.001	AMDE350B	NLED14WXGAG
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT0C.002	AMDE350B	NLED14WXGAG
AS4253-E35 4G50Mnkk	ACLA-Spanish	LX.RDT0C.007	AMDE350B	NLED14WXGAG

Table 1-3. VGA Chip, VRAM 1

Model	Country	Acer Part No	VGA Chip	VRAM 1
AS4253-E35 1G32Mncc	Indonesia	LX.RDU08.001	UMA	N
AS4253-E35 1G32Mncc	Indonesia	LX.RDU0C.004	UMA	N

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Table 1-3. VGA Chip, VRAM 1 (Continued)

Model	Country	Acer Part No	VGA Chip	VRAM 1
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.005	UMA	N
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.006	UMA	N
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.007	UMA	N
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.002	UMA	N
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.003	UMA	N
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT0C.006	UMA	N
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.008	UMA	N
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.009	UMA	N
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.010	UMA	N
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.004	UMA	N
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.005	UMA	N
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.006	UMA	N
AS4253-E35 2G25Mnkk	ACLA-Spanish	LX.RDT0C.001	UMA	N
AS4253-E35 2G32Mncc	China	LX.RDU01.001	UMA	N
AS4253-E35 2G32Mncc	China	LX.RDU0C.008	UMA	N
AS4253-E35 2G32Mncc	Indonesia	LX.RDU01.002	UMA	N
AS4253-E35 2G32Mncc	Malaysia	LX.RDU0C.009	UMA	N
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT01.001	UMA	N
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT08.001	UMA	N
AS4253-E35 2G32Mnkk	China	LX.RDT01.002	UMA	N

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Table 1-3. VGA Chip, VRAM 1 (Continued)

Model	Country	Acer Part No	VGA Chip	VRAM 1
AS4253-E35 2G32Mnkk	China	LX.RDT0C.011	UMA	N
AS4253-E35 2G32Mnkk	Indonesia	LX.RDT01.003	UMA	N
AS4253-E35 2G32Mnkk	Malaysia	LX.RDT0C.012	UMA	N
AS4253-E35 2G32Mnrr	China	LX.RDV01.001	UMA	N
AS4253-E35 2G32Mnrr	Malaysia	LX.RDV0C.007	UMA	N
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.002	UMA	N
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.003	UMA	N
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.004	UMA	N
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.001	UMA	N
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.002	UMA	N
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.003	UMA	N
AS4253-E35 2G50Mnkk	China	LX.RDT0C.013	UMA	N
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.004	UMA	N
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.005	UMA	N
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.006	UMA	N
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.003	UMA	N
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.004	UMA	N
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.005	UMA	N
AS4253-E35 2G50Mnrr	China	LX.RDV0C.008	UMA	N
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.001	UMA	N

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Table 1-3. VGA Chip, VRAM 1 (Continued)

Model	Country	Acer Part No	VGA Chip	VRAM 1
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.002	UMA	N
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.003	UMA	N
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.001	UMA	N
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.002	UMA	N
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.003	UMA	N
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT02.001	UMA	N
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT0C.002	UMA	N
AS4253-E35 4G50Mnkk	ACLA-Spanish	LX.RDT0C.007	UMA	N

Table 1-4. Memory 1, Memory 2, HDD 1

Model	Country	Acer Part No	Memory 1	Memory 2	HDD 1(GB)
AS4253-E35 1G32Mncc	Indonesia	LX.RDU08.001	SO1GBIII10	N	N320GB5.4KS _4K
AS4253-E35 1G32Mncc	Indonesia	LX.RDU0C.004	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.005	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.006	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.007	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.002	SO1GBIII10	N	N320GB5.4KS _4K
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.003	SO1GBIII10	N	N320GB5.4KS _4K
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT0C.006	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.008	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.009	SO1GBIII10	N	N320GB5.4KS

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Table 1-4. Memory 1, Memory 2, HDD 1 (Continued)

Model	Country	Acer Part No	Memory 1	Memory 2	HDD 1(GB)
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.010	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.004	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.005	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.006	SO1GBIII10	N	N320GB5.4KS
AS4253-E35 2G25Mnkk	ACLA-Spanish	LX.RDT0C.001	SO2GBIII10	N	N250GB5.4KS
AS4253-E35 2G32Mncc	China	LX.RDU01.001	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mncc	China	LX.RDU0C.008	SO2GBIII10	N	N320GB5.4KS
AS4253-E35 2G32Mncc	Indonesia	LX.RDU01.002	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mncc	Malaysia	LX.RDU0C.009	SO2GBIII10	N	N320GB5.4KS
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT01.001	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT08.001	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mnkk	China	LX.RDT01.002	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mnkk	China	LX.RDT0C.011	SO2GBIII10	N	N320GB5.4KS
AS4253-E35 2G32Mnkk	Indonesia	LX.RDT01.003	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mnkk	Malaysia	LX.RDT0C.012	SO2GBIII10	N	N320GB5.4KS
AS4253-E35 2G32Mnrr	China	LX.RDV01.001	SO2GBIII10	N	N320GB5.4KS _4K
AS4253-E35 2G32Mnrr	Malaysia	LX.RDV0C.007	SO2GBIII10	N	N320GB5.4KS
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.002	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.003	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.004	SO2GBIII10	N	N500GB5.4KS

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Table 1-4. Memory 1, Memory 2, HDD 1 (Continued)

Model	Country	Acer Part No	Memory 1	Memory 2	HDD 1(GB)
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.001	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.002	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.003	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	China	LX.RDT0C.013	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.004	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.005	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.006	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.003	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.004	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.005	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	China	LX.RDV0C.008	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.001	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.002	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.003	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.001	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.002	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.003	SO2GBIII10	N	N500GB5.4KS
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT02.001	SO2GBIII10	SO1GBIII10	N320GB5.4KS _4K
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT0C.002	SO2GBIII10	SO1GBIII10	N320GB5.4KS
AS4253-E35 4G50Mnkk	ACLA-Spanish	LX.RDT0C.007	SO2GBIII10	SO2GBIII10	N500GB5.4KS

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Table 1-5. ODD, Extra SW1, Card Reader

Model	Country	Acer Part No	ODD	Extra SW1	Card Reader
AS4253-E35 1G32Mncc	Indonesia	LX.RDU08.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 1G32Mncc	Indonesia	LX.RDU0C.004	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.005	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.006	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.007	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.002	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.003	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT0C.006	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.008	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.009	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.010	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.004	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.005	NSM8XS	N	2-in-1 card reader
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.006	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G25Mnkk	ACLA-Spanish	LX.RDT0C.001	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G32Mncc	China	LX.RDU01.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mncc	China	LX.RDU0C.008	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G32Mncc	Indonesia	LX.RDU01.002	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mncc	Malaysia	LX.RDU0C.009	NSM8XS	N	2-in-1 card reader

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Table 1-5. ODD, Extra SW1, Card Reader (Continued)

Model	Country	Acer Part No	ODD	Extra SW1	Card Reader
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT01.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT08.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mnkk	China	LX.RDT01.002	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mnkk	China	LX.RDT0C.011	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G32Mnkk	Indonesia	LX.RDT01.003	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mnkk	Malaysia	LX.RDT0C.012	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G32Mnrr	China	LX.RDV01.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G32Mnrr	Malaysia	LX.RDV0C.007	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.002	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.003	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.004	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.001	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.002	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.003	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnkk	China	LX.RDT0C.013	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.004	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.005	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.006	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.003	NSM8XS	N	2-in-1 card reader

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Table 1-5. ODD, Extra SW1, Card Reader (Continued)

Model	Country	Acer Part No	ODD	Extra SW1	Card Reader
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.004	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.005	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnrr	China	LX.RDV0C.008	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.002	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.003	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.001	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.002	NSM8XS	N	2-in-1 card reader
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.003	NSM8XS	N	2-in-1 card reader
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT02.001	NSM8XS	McAfee	2-in-1 card reader
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT0C.002	NSM8XS	N	2-in-1 card reader
AS4253-E35 4G50Mnkk	ACLA-Spanish	LX.RDT0C.007	NSM8XS	N	2-in-1 card reader

Table 1-6. Wireless LAN1, Bluetooth, NB Chipset

Model	Country	Acer Part No	Wireless LAN1	Bluetooth	NB Chipset
AS4253-E35 1G32Mncc	Indonesia	LX.RDU08.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 1G32Mncc	Indonesia	LX.RDU0C.004	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.005	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.006	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.007	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH

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Table 1-6. Wireless LAN1, Bluetooth, NB Chipset (Continued)

Model	Country	Acer Part No	Wireless LAN1	Bluetooth	NB Chipset
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.003	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT0C.006	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.008	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.009	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.010	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.004	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.005	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.006	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G25Mnkk	ACLA-Spanish	LX.RDT0C.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mncc	China	LX.RDU01.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mncc	China	LX.RDU0C.008	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mncc	Indonesia	LX.RDU01.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G32Mncc	Malaysia	LX.RDU0C.009	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT01.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT08.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mnkk	China	LX.RDT01.002	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mnkk	China	LX.RDT0C.011	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mnkk	Indonesia	LX.RDT01.003	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH

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Table 1-6. Wireless LAN1, Bluetooth, NB Chipset (Continued)

Model	Country	Acer Part No	Wireless LAN1	Bluetooth	NB Chipset
AS4253-E35 2G32Mnkk	Malaysia	LX.RDT0C.012	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G32Mnrr	China	LX.RDV01.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G32Mnrr	Malaysia	LX.RDV0C.007	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.003	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.004	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.001	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.002	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.003	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mnkk	China	LX.RDT0C.013	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.004	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.005	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.006	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.003	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.004	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.005	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mnrr	China	LX.RDV0C.008	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.001	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH

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Table 1-6. Wireless LAN1, Bluetooth, NB Chipset (Continued)

Model	Country	Acer Part No	Wireless LAN1	Bluetooth	NB Chipset
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.003	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.001	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.002	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.003	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT02.001	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT0C.002	3rd WiFi 2x2 BGN	N	AMD A50M FCH
AS4253-E35 4G50Mnkk	ACLA-Spanish	LX.RDT0C.007	3rd WiFi 2x2 BGN	N	AMD A50M FCH

Table 1-7. Battery, Adapter, Camera

Model	Country	Acer Part No	Battery	Adapter	Camera
AS4253-E35 1G32Mncc	Indonesia	LX.RDU08.001	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mncc	Indonesia	LX.RDU0C.004	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.005	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.006	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mncc	Thailand	LX.RDU0C.007	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.002	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT08.003	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnkk	Indonesia	LX.RDT0C.006	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.008	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.009	6CELL2.2	65W	1.3M

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Table 1-7. Battery, Adapter, Camera (Continued)

Model	Country	Acer Part No	Battery	Adapter	Camera
AS4253-E35 1G32Mnkk	Thailand	LX.RDT0C.010	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.004	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.005	6CELL2.2	65W	1.3M
AS4253-E35 1G32Mnrr	Thailand	LX.RDV0C.006	6CELL2.2	65W	1.3M
AS4253-E35 2G25Mnkk	ACLA-Spanish	LX.RDT0C.001	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mncc	China	LX.RDU01.001	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mncc	China	LX.RDU0C.008	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mncc	Indonesia	LX.RDU01.002	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mncc	Malaysia	LX.RDU0C.009	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT01.001	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnkk	ACLA-Spanish	LX.RDT08.001	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnkk	China	LX.RDT01.002	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnkk	China	LX.RDT0C.011	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnkk	Indonesia	LX.RDT01.003	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnkk	Malaysia	LX.RDT0C.012	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnrr	China	LX.RDV01.001	6CELL2.2	65W	1.3M
AS4253-E35 2G32Mnrr	Malaysia	LX.RDV0C.007	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.002	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.003	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mncc	Thailand	LX.RDU08.004	6CELL2.2	65W	1.3M

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Table 1-7. Battery, Adapter, Camera (Continued)

Model	Country	Acer Part No	Battery	Adapter	Camera
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.001	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.002	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mncc	Thailand	LX.RDU0C.003	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	China	LX.RDT0C.013	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.004	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.005	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	Thailand	LX.RDT08.006	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.003	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.004	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnkk	Thailand	LX.RDT0C.005	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	China	LX.RDV0C.008	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.001	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.002	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	Thailand	LX.RDV08.003	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.001	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.002	6CELL2.2	65W	1.3M
AS4253-E35 2G50Mnrr	Thailand	LX.RDV0C.003	6CELL2.2	65W	1.3M
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT02.001	6CELL2.2	65W	1.3M
AS4253-E35 3G32Mnkk	ACLA-Spanish	LX.RDT0C.002	6CELL2.2	65W	1.3M
AS4253-E35 4G50Mnkk	ACLA-Spanish	LX.RDT0C.007	6CELL2.2	65W	1.3M

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Table 1-8. RO, Description

Model	RO	Country	Acer Part No	Description
AS4253G-E352G50Mncc	AAP	Thailand	LX.RDX08.001	AS4253G-E352G50Mncc EM W7ST32EMASTH1 MC SEYMOUR_XT512Ccc_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_TH71
AS4253G-E352G50Mncc	AAP	Thailand	LX.RDX08.002	AS4253G-E352G50Mncc EM W7ST32EMASTH3 MC SEYMOUR_XT512Ccc_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253G-E352G50Mncc	AAP	Thailand	LX.RDX08.003	AS4253G-E352G50Mncc EM W7ST32EMASTH4 MC SEYMOUR_XT512Ccc_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253G-E352G50Mncc	AAP	Thailand	LX.RDX0C.001	AS4253G-E352G50Mncc LINPUSATH3 SEYMOUR_XT512Ccc_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_EN11
AS4253G-E352G50Mncc	AAP	Thailand	LX.RDX0C.002	AS4253G-E352G50Mncc LINPUSATH1 SEYMOUR_XT512Ccc_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_TH51
AS4253G-E352G50Mncc	AAP	Thailand	LX.RDX0C.003	AS4253G-E352G50Mncc LINPUSATH4 SEYMOUR_XT512Ccc_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEc_ES61
AS4253G-E352G50Mnkk	AAP	Thailand	LX.RDW08.001	AS4253G-E352G50Mnkk EM W7ST32EMASTH1 MC SEYMOUR_XT512Ckk_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_TH71
AS4253G-E352G50Mnkk	AAP	Thailand	LX.RDW08.002	AS4253G-E352G50Mnkk EM W7ST32EMASTH3 MC SEYMOUR_XT512Ckk_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ES61

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Table 1-8. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253G-E352G50Mnkk	AAP	Thailand	LX.RDW08.003	AS4253G-E352G50Mnkk EM W7ST32EMASTH4 MC SEYMOUR_XT512Ckk_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ES61
AS4253G-E352G50Mnkk	AAP	Thailand	LX.RDW0C.001	AS4253G-E352G50Mnkk LINPUSATH3 SEYMOUR_XT512Ckk_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_EN11
AS4253G-E352G50Mnkk	AAP	Thailand	LX.RDW0C.002	AS4253G-E352G50Mnkk LINPUSATH1 SEYMOUR_XT512Ckk_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_TH51
AS4253G-E352G50Mnkk	AAP	Thailand	LX.RDW0C.003	AS4253G-E352G50Mnkk LINPUSATH4 SEYMOUR_XT512Ckk_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEk_ES61
AS4253G-E352G50Mnrr	AAP	Thailand	LX.RDY08.001	AS4253G-E352G50Mnrr EM W7ST32EMASTH1 MC SEYMOUR_XT512Crr_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_TH71
AS4253G-E352G50Mnrr	AAP	Thailand	LX.RDY08.002	AS4253G-E352G50Mnrr EM W7ST32EMASTH3 MC SEYMOUR_XT512Crr_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_ES61
AS4253G-E352G50Mnrr	AAP	Thailand	LX.RDY08.003	AS4253G-E352G50Mnrr EM W7ST32EMASTH4 MC SEYMOUR_XT512Crr_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_ES61
AS4253G-E352G50Mnrr	AAP	Thailand	LX.RDY0C.001	AS4253G-E352G50Mnrr LINPUSATH3 SEYMOUR_XT512Crr_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_EN11
AS4253G-E352G50Mnrr	AAP	Thailand	LX.RDY0C.002	AS4253G-E352G50Mnrr LINPUSATH1 SEYMOUR_XT512Crr_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_TH51

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Table 1-8. RO, Description (Continued)

Model	RO	Country	Acer Part No	Description
AS4253G-E352G50Mnrr	AAP	Thailand	LX.RDY0C.003	AS4253G-E352G50Mnrr LINPUSATH4 SEYMOUR_XT512Crr_3V3 1*2G/500_L/BT/6L2.2/2R/CB_bgn_1.3C_GEr_ES61
AS4253G-E352G64Mncc	AAP	Philippines	LX.RDX0C.004	AS4253G-E352G64Mncc LINPUSAPH1 SEYMOUR_XT512Ccc_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_GEc_EN11
AS4253G-E352G64Mnkk	AAP	Philippines	LX.RDW0C.004	AS4253G-E352G64Mnkk LINPUSAPH1 SEYMOUR_XT512Ckk_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_GEk_EN11
AS4253G-E352G64Mnrr	AAP	Philippines	LX.RDY0C.004	AS4253G-E352G64Mnrr LINPUSAPH1 SEYMOUR_XT512Crr_3V3 1*2G/640/BT/6L2.2/2R/CB_bgn_1.3C_GEr_EN11

Table 1-9. CPU, LCD

Model	Country	Acer Part No	CPU	LCD
AS4253G-E352G50Mncc	Thailand	LX.RDX08.001	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mncc	Thailand	LX.RDX08.002	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mncc	Thailand	LX.RDX08.003	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.001	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.002	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.003	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.001	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.002	AMDE350B	NLED14WXGAG
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.003	AMDE350B	NLED14WXGAG

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Table 1-9. CPU, LCD (Continued)

Model	Country	Acer Part No	CPU	LCD
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.001	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.002	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.003	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.001	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.002	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.003	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.001	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.002	AMDE350B	NLED14WXGAG
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.003	AMDE350B	NLED14WXGAG
AS4253G-E3 52G64Mncc	Philippines	LX.RDX0C.004	AMDE350B	NLED14WXGAG
AS4253G-E3 52G64Mnkk	Philippines	LX.RDW0C.004	AMDE350B	NLED14WXGAG
AS4253G-E3 52G64Mnrr	Philippines	LX.RDY0C.004	AMDE350B	NLED14WXGAG

Table 1-10. VGA Chip, VRAM 1

Model	Country	Acer Part No	VGA Chip	VRAM 1
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.001	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.002	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.003	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.001	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.002	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.003	SEYMOUR_XT	512M-DDR3 (64*16*4)

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Table 1-10. VGA Chip, VRAM 1 (Continued)

Model	Country	Acer Part No	VGA Chip	VRAM 1
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.001	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.002	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.003	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.001	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.002	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.003	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.001	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.002	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.003	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.001	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.002	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.003	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G64Mncc	Philippines	LX.RDX0C.004	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G64Mnkk	Philippines	LX.RDW0C.004	SEYMOUR_XT	512M-DDR3 (64*16*4)
AS4253G-E3 52G64Mnrr	Philippines	LX.RDY0C.004	SEYMOUR_XT	512M-DDR3 (64*16*4)

Table 1-11. Memory 1, Memory 2, HDD 1

Model	Country	Acer Part No	Memory 1	Memory 2	HDD 1(GB)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.001	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.002	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.003	SO2GBIII10	N	N500GB5.4KS

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Table 1-11. Memory 1, Memory 2, HDD 1 (Continued)

Model	Country	Acer Part No	Memory 1	Memory 2	HDD 1(GB)
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.001	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.002	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.003	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.001	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.002	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.003	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.001	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.002	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.003	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.001	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.002	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY08.003	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.001	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.002	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.003	SO2GBIII10	N	N500GB5.4KS
AS4253G-E3 52G64Mncc	Philippines	LX.RDX0C.004	SO2GBIII10	N	N640GB5.4KS
AS4253G-E3 52G64Mnkk	Philippines	LX.RDW0C.004	SO2GBIII10	N	N640GB5.4KS
AS4253G-E3 52G64Mnrr	Philippines	LX.RDY0C.004	SO2GBIII10	N	N640GB5.4KS

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Table 1-12. ODD, Extra SW1, Card Reader

Model	Country	Acer Part No	ODD	Extra SW1	Card Reader
AS4253G-E352G50Mncc	Thailand	LX.RDX08.001	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mncc	Thailand	LX.RDX08.002	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mncc	Thailand	LX.RDX08.003	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.001	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.002	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.003	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.001	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.002	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.003	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.001	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.002	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.003	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.001	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.002	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.003	NSM8XS	McAfee	2-in-1 card reader
AS4253G-E352G50Mnrr	Thailand	LX.RDY0C.001	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mnrr	Thailand	LX.RDY0C.002	NSM8XS	N	2-in-1 card reader
AS4253G-E352G50Mnrr	Thailand	LX.RDY0C.003	NSM8XS	N	2-in-1 card reader
AS4253G-E352G64Mncc	Philippines	LX.RDX0C.004	NSM8XS	N	2-in-1 card reader

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Table 1-12. ODD, Extra SW1, Card Reader (Continued)

Model	Country	Acer Part No	ODD	Extra SW1	Card Reader
AS4253G-E352G64Mnkk	Philippines	LX.RDW0C.004	NSM8XS	N	2-in-1 card reader
AS4253G-E352G64Mnrr	Philippines	LX.RDY0C.004	NSM8XS	N	2-in-1 card reader

Table 1-13. Wireless LAN1, Bluetooth, NB Chipset

Model	Country	Acer Part No	Wireless LAN1	Bluetooth	NB Chipset
AS4253G-E352G50Mncc	Thailand	LX.RDX08.001	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mncc	Thailand	LX.RDX08.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mncc	Thailand	LX.RDX08.003	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.001	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.002	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E352G50Mncc	Thailand	LX.RDX0C.003	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.001	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mnkk	Thailand	LX.RDW08.003	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.001	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.002	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.003	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.001	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.002	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.003	3rd WiFi 2x2 BGN	BT 3.0	AMD A50M FCH

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Table 1-13. Wireless LAN1, Bluetooth, NB Chipset (Continued)

Model	Country	Acer Part No	Wireless LAN1	Bluetooth	NB Chipset
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.001	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.002	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E3 52G50Mnrr	Thailand	LX.RDY0C.003	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E3 52G64Mncc	Philippines	LX.RDX0C.004	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E3 52G64Mnkk	Philippines	LX.RDW0C.004	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH
AS4253G-E3 52G64Mnrr	Philippines	LX.RDY0C.004	3rd WiFi 2x2 BGN	BT 2.1	AMD A50M FCH

Table 1-14. Battery, Adapter, Camera

Model	Country	Acer Part No	Battery	Adapter	Camera
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.001	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.002	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mncc	Thailand	LX.RDX08.003	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.001	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.002	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mncc	Thailand	LX.RDX0C.003	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.001	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.002	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW08.003	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.001	6CELL2.2	65W	1.3M
AS4253G-E3 52G50Mnkk	Thailand	LX.RDW0C.002	6CELL2.2	65W	1.3M

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Table 1-14. Battery, Adapter, Camera (Continued)

Model	Country	Acer Part No	Battery	Adapter	Camera
AS4253G-E352G50Mnkk	Thailand	LX.RDW0C.003	6CELL2.2	65W	1.3M
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.001	6CELL2.2	65W	1.3M
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.002	6CELL2.2	65W	1.3M
AS4253G-E352G50Mnrr	Thailand	LX.RDY08.003	6CELL2.2	65W	1.3M
AS4253G-E352G50Mnrr	Thailand	LX.RDY0C.001	6CELL2.2	65W	1.3M
AS4253G-E352G50Mnrr	Thailand	LX.RDY0C.002	6CELL2.2	65W	1.3M
AS4253G-E352G50Mnrr	Thailand	LX.RDY0C.003	6CELL2.2	65W	1.3M
AS4253G-E352G64Mncc	Philippines	LX.RDX0C.004	6CELL2.2	65W	1.3M
AS4253G-E352G64Mnkk	Philippines	LX.RDW0C.004	6CELL2.2	65W	1.3M
AS4253G-E352G64Mnrr	Philippines	LX.RDY0C.004	6CELL2.2	65W	1.3M

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CHAPTER 8

Test Compatible Components

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Microsoft® Windows® 7 Environment Test 8-4

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Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under Windows® 7 environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Aspire 4253/4253G. Compatibility Test Report released by the Acer Mobile System Testing Department.

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
Adapter			
10001023 LITE-ON	65W	Adapter LITE-ON 65W 19V 1.7x5.5x11 Yellow PA-1650-69AW, LV5, Low profile LED LF	AP.06503.029
10001081 DELTA	65W	Adapter DELTA 65W 19V 1.7x5.5x11 Yellow ADP-65VH BA, LV5, Low profile LED LF	AP.06501.033
60016453 CHICONY POWER	65W	Adapter Chicony Power 65W 19V 1.7x5.5x11 Yellow CPA09-A065N1, LV5, low profile LF	AP.0650A.017
Audio Codec			
PLM00004 Conexant	Conexant CX-20584	Conexant Audio Codec CX-20584	LZ.21000.086
Battery			
10001063 SONY	6CELL2.2	Battery SONY AS10D Li-Ion 3S2P SONY 6 cell 4400mAh Main COMMON ID:AS10D41	BT.00604.049
60001535 PANASONIC	6CELL2.2	Battery PANASONIC AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D51	BT.00605.062
60001921 SANYO	6CELL2.2	Battery SANYO AS10D Li-Ion 3S2P SANYO 6 cell 4400mAh Main COMMON new IC BQ8055	BT.00603.124
60002162 SIMPLO	6CELL2.2	Battery SIMPLO AS10D Li-Ion 3S2P PANASONIC 6 cell 4400mAh Main COMMON ID:AS10D71	BT.00607.125
60002162 SIMPLO	6CELL2.2	Battery SIMPLO AS10D Li-Ion 3S2P LGC 6 cell 4400mAh Main COMMON ID:AS10D73	BT.00607.126
60002162 SIMPLO	6CELL2.2	Battery SIMPLO AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D	BT.00607.127
60013145 SAMSUNG SDI	6CELL2.2	Battery SAMSUNG AS10D Li-Ion 3S2P SAMSUNG 6 cell 4400mAh Main COMMON ID:AS10D61	BT.00606.008

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
Bluetooth			
10001018 HON HAI	BT 2.1	Foxconn Bluetooth ATH BU_12	BH.21100.012
10001018 HON HAI	BT 3.0	Foxconn Bluetooth BRM 2070 (T77H114.01) BT 3.0	BH.21100.010
10001018 HON HAI	BT 3.0	Foxconn Bluetooth ATH BU12	BH.21100.011
23707801 FOXCONN TW	BT 2.1	Foxconn Bluetooth BRM 2070 (T77H114.01)	BH.21100.007
Camera			
10001023 LITE-ON	1.3M	Liteon 1.3M LT9665AL (09P2SF119)	AM.21400.069
10001044 CHICONY	1.3M	Chicony 1.3M CH9665SN (CNF9157)	AM.21400.067
PLM00012 Suyin	1.3M	Suyin 1.3M SY9665SN	AM.21400.068
Card Reader			
10000981 MISC	2-in-1 card reader	2-in-1 card reader	CR.21500.030
CPU			
60002168 AMD	AMDC50B	CPU AMD - C50 BGA 1.0G / 9W	KC.C0002.500
60002168 AMD	AMDE240B	CPU AMD - E240 BGA 1.5G 18W	KC.E0002.240
60002168 AMD	AMDE350B	CPU AMD - E350 BGA 1.6G 18W	KC.E0002.350
HDD			
60001922 TOSHIBA DIGI	N250GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 250GB MK2565GSX, Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.25004.005
60001922 TOSHIBA DIGI	N320GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 320GB Capricorn BS,MK3265GSX SATA 8MB LF F/W:GJ002J	KH.32004.004
60001922 TOSHIBA DIGI	N500GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 500GB MK5065GSX,Capricorn BS, 320G/P SATA 8MB LF F/W:GJ002J	KH.50004.002
60001922 TOSHIBA DIGI	N640GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 640GB MK6465GSX,Capricorn BS,320G/P SATA 8MB LF F/W:GJ002J	KH.64004.001

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
60001922 TOSHIBA DIGI	N750GB5.4KS	HDD TOSHIBA 2.5" 5400rpm 750GB MK7559GSXP, 375G/P, Capricorn BS, 4K drive SATA 8MB LF+HF F/W:GN003J	KH.75004.001
60001994 WD	N250GB5.4KS	HDD WD 2.5" 5400rpm 250GB WD2500BPVT-22ZEST0,ML320S-AF, 4K drive SATA 8MB LF F/W:01.01A01 4K drive	KH.25008.029
60001994 WD	N320GB5.4KS_4K	HDD WD 2.5" 5400rpm 320GB WD3200BPVT-22ZEST0, ML320S, 4K drive SATA 8MB LF F/W: 01.01A01	KH.32008.022
60001994 WD	N500GB5.4KS	HDD WD 2.5" 5400rpm 500GB WD5000BPVT-22HXZT1,ML375_AF, 4K drive SATA 8MB LF+HF F/W:01.01A01	KH.50008.021
60001994 WD	N640GB5.4KS	HDD WD 2.5" 5400rpm 640GB WD6400BPVT-22HXZT1, ML375M SATA 8MB LF F/W: 01.01A01	KH.64008.005
60001994 WD	N750GB5.4KS	HDD WD 2.5" 5400rpm 750GB WD7500BPVT-22HXZT1, ML375M, 4K drive SATA 8MB LF F/W:01.01A01 Brazil	KH.750B8.009
60002005 HGST SG	N250GB5.4KS	HDD HGST 2.5" 5400rpm 250GB HTS545025B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.25007.016
60002005 HGST SG	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS545032B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.32007.008
60002005 HGST SG	N320GB5.4KS	HDD HGST 2.5" 5400rpm 320GB HTS543232A7A384,0J11523, Eagle B7 SATA 8MB LF F/W:A60W 7mmzh	KH.32007.012
60002005 HGST SG	N500GB5.4KS	HDD HGST 2.5" 5400rpm 500GB HTS545050B9A300 Panther B SATA LF F/W:C60F Disk imbalance criteria = 0.014g-cm	KH.50007.010
60002005 HGST SG	N750GB5.4KS	HDD HGST 2.5" 5400rpm 750GB HTS547575A9E384, 0J15083, Jet B, 375G/P SATA 8MB LF F/W:DA3872	KH.75007.004

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
60002036 SEAGATE	N250GB5.4KS	HDD SEAGATE 2.5" 5400rpm 250GB ST9250315AS, 9HH132-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.25001.019
60002036 SEAGATE	N320GB5.4KS	HDD SEAGATE 2.5" 5400rpm 320GB ST9320310AS,9RN132-188, Cameron 320G/P SATA 8MB LF F/W:0001SDM1	KH.32001.019
60002036 SEAGATE	N500GB5.4KS	HDD SEAGATE 2.5" 5400rpm 500GB ST9500325AS,9HH134-189, Wyatt with new pcb SATA 8MB LF F/W:0001SDM1	KH.50001.017
60002036 SEAGATE	N750GB5.4KS	HDD SEAGATE 2.5" 5400rpm 750GB ST9750423AS,9ZW14G-188, Desaru5, 375G/P. SATA 8MB LF+HF F/W:0001SDM1	KH.75001.011
Keyboard			
60004864 DARFON	AC4T_A10B	Keyboard ACER AC4T_A10B AC4T Internal 14 Standard Black Y2010 Acer Legend Texture	KB.I140A.202
LAN			
10017383 Atheros	AR8151L	Atheros AR8151L	NI.22400.048
LCD			
10001022 CMI	NLED14WXGAG	LED LCD CMI 14" WXGA Glare BT140GW01 V6 LF 220nit 8ms 600:1	LK.1400D.008
60002215 SAMSUNG	NLED14WXGAG	LED LCD SAMSUNG 14" WXGA Glare LTN140AT01-G04 LF 220nit 8ms 500:1	LK.14006.015
60003089 LG	NLED14WXGAG	LED LCD LPL 14" WXGA Glare LP140WH1-TLA2 LF 220nit 8ms 500:1	LK.14008.004
60003316 AUO	NLED14WXGAG	LED LCD AUO 14" WXGA Glare B140XW01 V8 0A LF 220nit 8ms 500:1 (power saving)	LK.14005.010
Memory			
60001993 NANYA	SO2GBIII13	Memory NANYA SO-DIMM DDRIII 1333 2GB NT2GC64B88B0NS-CG LF 256*8 0.055um	KN.2GB03.021

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
60001993 NANYA	SO4GBIII13	Memory NANYA SO-DIMM DDRIII 1333 4GB NT4GC64B8HB0NS-CG LF 256*8 0.055um	KN.4GB03.005
60002000 UNIFOSA	SO1GBIII13	Memory UNIFOSA SO-DIMM DDRIII 1333 1GB GU672203EP0200 LF 128*8 0.065um	KN.1GB0H.017
60002041 QIMONDA	SO1GBIII10	Memory NONE REG-ECC DDRIII 1066 1GB phantom p/n LF	KN.1GB00.003
60002045 HYNIX	SO2GBIII13	Memory HYNIX SO-DIMM DDRIII 1333 2GB HMT325S6BFR8C-H9 LF 256*8 46nm	KN.2GB0G.018
60002050 MICRON SG	SO2GBIII13	Memory MICRON SO-DIMM DDRIII 1333 2GB MT8JSF25664HZ-1G4D1 LF 256*8 0.055um	KN.2GB04.017
60002215 SAMSUNG	SO1GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 1GB M471B2873FHS-CH9 LF 128*8 46nm	KN.1GB0B.035
60002215 SAMSUNG	SO2GBIII10	Memory NONE SO-DIMM DDRIII 1066 2GB dummy 1066 LF	KN.2GB00.001
60002215 SAMSUNG	SO2GBIII13	Memory SAMSUNG SO-DIMM DDRIII 1333 2GB M471B5773DH0-CH9 LF 256*8	KN.2GB0B.030
60002215 SAMSUNG	SO4GBIII10	Memory SAMSUNG SO-DIMM DDRIII 1066 4GB M471B5273BH1-CF8 LF 256*8 0.055um	KN.4GB0B.007
60024207 KINGSTON	SO1GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 1GB ACR128X64D3S1333C9 LF 128*8 0.065um	KN.1GB07.004
60024207 KINGSTON	SO2GBIII13	Memory KINGSTON SO-DIMM DDRIII 1333 2GB ACR256X64D3S1333C9 LF 128*8 0.065um	KN.2GB07.004
NB Chipset			
60002168 AMD	AMD A50M FCH	AMD NB Chipset A50M	KI.22600.055
ODD			
10001070 PHILIPS	NSM8XS	ODD PLDS Super-Multi DRIVE 12.7mm Tray DL 8X DS-8A5SH LF+HF W/O bezel SATA With TI + Rohm Solution (HF + Windows 7)	KU.0080F.014

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
60001535 PANASONIC	NSM8XS	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ890A LF W/O bezel SATA (HF + Windows 7)	KU.00807.070
60001535 PANASONIC	NSM8XS	ODD PANASONIC Super-Multi DRIVE 12.7mm Tray DL 8X UJ8A0 LF W/O bezel SATA (HF + Windows 7) Foxconn Yentai Factory	KU.00807.075
60001922 TOSHIBA DIGI	NSM8XS	ODD TOSHIBA Super-Multi DRIVE 12.7mm Tray DL 8X TS-L633F LF W/O bezel SATA (HF + Windows 7)	KU.00801.040
60001939 PIONEER	NSM8XS	ODD PIONEER Super-Multi DRIVE 12.7mm Tray DL 8X DVR-TD10RS LF W/O bezel 1.00 SATA	KU.00805.049
60003901 HITACHI EAST	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT34N LF W/O bezel SATA Zero Power Supported, PCC LD (HF + Windows 7)	KU.0080D.057
610105 HLDS	NSM8XS	ODD HLDS Super-Multi DRIVE 12.7mm Tray DL 8X GT32N (R5-2) LF W/O bezel SATA with Renesas solution + PCC LD (HF + Windows 7)	KU.0080D.055
SB Chipset			
9999995 ONE TIME VENDER	N	N	KI.22800.011
Software			
10000981 MISC	McAfee	Antivirus application McAfee	SR.23900.001
VGA Chip			
22554573 AMD	UMA	UMA (AMD)	KI.23200.154
60002168 AMDISS	SEYMOUR_XT	VGA Chip AMD SEYMOUR_XT 40nm 29mm*29mm M2 package	KG.SEY0A.001
VRAM			
10000981 MISC	512M-DDR3 (64*16*4)	512M-DDR3 64*16*4	KI.23300.019
60002045 HYNIX	VR1GbIII8	VRAM HYNIX Graphic DDRIII 800 1Gb H5TQ1G63BFR-12C LF	VR.1GB0G.004
60002045 HYNIX	VR1GbIII9	VRAM HYNIX Graphic DDRIII 900 1Gb H5TQ1G63DFR-11C LF 64*16 46nm	VR.1GB0G.006

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Table 1-1. Test Compatible Components

Vendor	Type	Description	Acer Part No.
60002215 SAMSUNG	VR1GbIII9	VRAM SAMSUNG Graphic DDRIII 900 1Gb K4W1G1646G-BC11 LF 64*16 35nm	VR.1GB0B.008
9999995 ONE TIME VENDER	N	N no VRAM	KI.23300.014
WiFi Antenna			
10000105 WNC	PIFA	PIFA	LZ.23500.006
Wireless LAN			
10001023 LITE-ON	3rd WiFi 2x2 BGN	Liteon Wireless LAN Atheris HB97 2x2 BGN (HM) WN6603AH	NI.23600.073
23707801 FOXCONN TW	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Broadcomm 43225 2x2 BGN (HM) T77H103.00	NI.23600.066
23707801 FOXCONN TW	3rd WiFi 2x2 BGN	Foxconn Wireless LAN Atheros HB97 2x2 BGN (HM)	NI.23600.072
23707801 FOXCONN TW	3rd WiFi BG	Foxconn Wireless LAN Atheros HB95BG (HM) T77H121.10	NI.23600.077

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CHAPTER 9
Online Support Information

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Introduction 9-3

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Online Support Information

Introduction

This section describes online technical support services available to help users repair their Acer Systems.

For distributors, dealers, ASP or TPM, please refer the technical queries to a local Acer branch office. Acer Branch Offices and Regional Business Units may access our website. However some information sources will require a user i.d. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers convenient and valuable support resources.

In the Technical Information section users can download information on all of Acer's Notebook, Desktop and Server models including:

- Service guides for all models
- Bios updates
- Software utilities
- Spare parts lists
- TABs (Technical Announcement Bulletin)

For these purposes, we have included an Acrobat File to facilitate the problem-free downloading of our technical material.

Also contained on this website are:

- Detailed information on Acer's International Traveller’s Warranty (ITW)
- Returned material authorization procedures
- An overview of all the support services we offer, accompanied by a list of telephone, fax and email contacts for all technical queries.

We are always looking for ways to optimize and improve our services, so do not hesitate to direct any suggestions or comments to us.

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